STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL	
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**1. WELL NAME and NUMBER** NBU 921-35N4BS
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO	**3. FIELD OR WILDCAT** NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.	**5. UNIT or COMMUNITIZATION AGREEMENT NAME** NATURAL BUTTES
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217	**7. OPERATOR PHONE** 720 929-6007
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 01194 ST	**9. OPERATOR E-MAIL** Kathy.SchneebeckDulnoan@anadarko.com
11. MINERAL OWNERSHIP FEDERAL ○ INDIAN ○ STATE ◉ FEE ○	**12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ◉ (Submit Commingling Application) NO ○
	19. SLANT VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	388 FSL 1770 FEL	SWSE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	410 FSL 2164 FWL	SESW	35	9.0 S	21.0 E	S
At Total Depth	410 FSL 2164 FWL	SESW	35	9.0 S	21.0 E	S

21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 410	**23. NUMBER OF ACRES IN DRILLING UNIT** 1083
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 960	**26. PROPOSED DEPTH** MD: 9884 TVD: 9666
27. ELEVATION - GROUND LEVEL 5100	**28. BOND NUMBER** 22013542	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**	☑ **COMPLETE DRILLING PLAN**
☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**	☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
☑ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**	☑ **TOPOGRAPHICAL MAP**

NAME Danielle Piernot	**TITLE** Regulatory Analyst	**PHONE** 720 929-6156
SIGNATURE	**DATE** 11/23/2010	**EMAIL** gnbregulatory@anadarko.com

API NUMBER ASSIGNED
43047513950000

APPROVAL

Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	9884		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 Buttress	9884	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	11	8.625	0	2540		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	2540	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-35N4BS

Surface:	388 FSL / 1770 FEL	SWSE
BHL:	410 FSL / 2164 FWL	SESW

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: ST UT UO 01194 ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1441	
Birds Nest	1718	Water
Mahogany	2094	Water
Wasatch	4695	Gas
Mesaverde	7416	Gas
MVU2	8316	Gas
MVL1	8867	Gas
TVD	9666	
TD	9,884	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9,666' TVD, approximately equals 5,922 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,795 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie

line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

'APIWellNo:43047513950000'

KERR-McGEE OIL & GAS ONSHORE LP

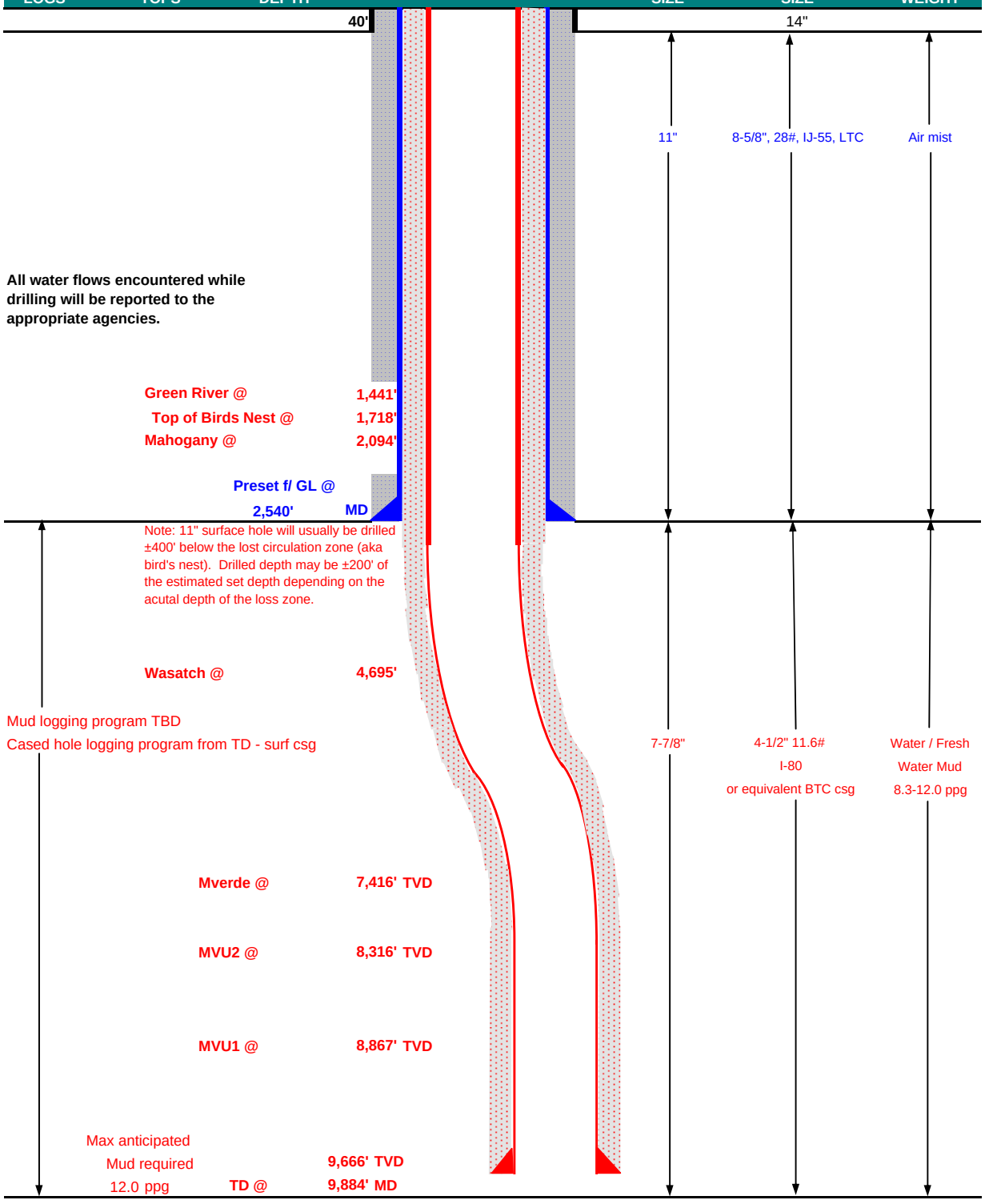
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	November 18, 2010	
WELL NAME	**NBU 921-35N4BS**		TD	9,666' TVD	9,884' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5,100'
SURFACE LOCATION	SWSE	388 FSL	1770 FEL	Sec 35 T 9S R 21E	
	Latitude: 39.986359	Longitude: -109.515096		NAD 27	
BTM HOLE LOCATION	SESW	410 FSL	2164 FWL	Sec 35 T 9S R 21E	
	Latitude: 39.986366	Longitude: -109.519923		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @	1,441'			
	Top of Birds Nest @	1,718'			
	Mahogany @	2,094'			
	Preset f/ GL @	2,540' MD			
	Wasatch @	4,695'			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde @	7,416' TVD			
	MVU2 @	8,316' TVD			
	MVU1 @	8,867' TVD			
Max anticipated Mud required 12.0 ppg	TD @	9,666' TVD 9,884' MD			

All water flows encountered while drilling will be reported to the appropriate agencies.

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.



'APIWellNo:43047513950000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	2,540	28.00	IJ-55	LTC	0.85	1.58	4.84
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9,884	11.60	I-80	BTC	1.99	1.05	2.78

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.12

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,795 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,922 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,040'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,194'	Premium Lite II +0.25 pps	300	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,690'	50/50 Poz/G + 10% salt + 2% gel	1,100	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

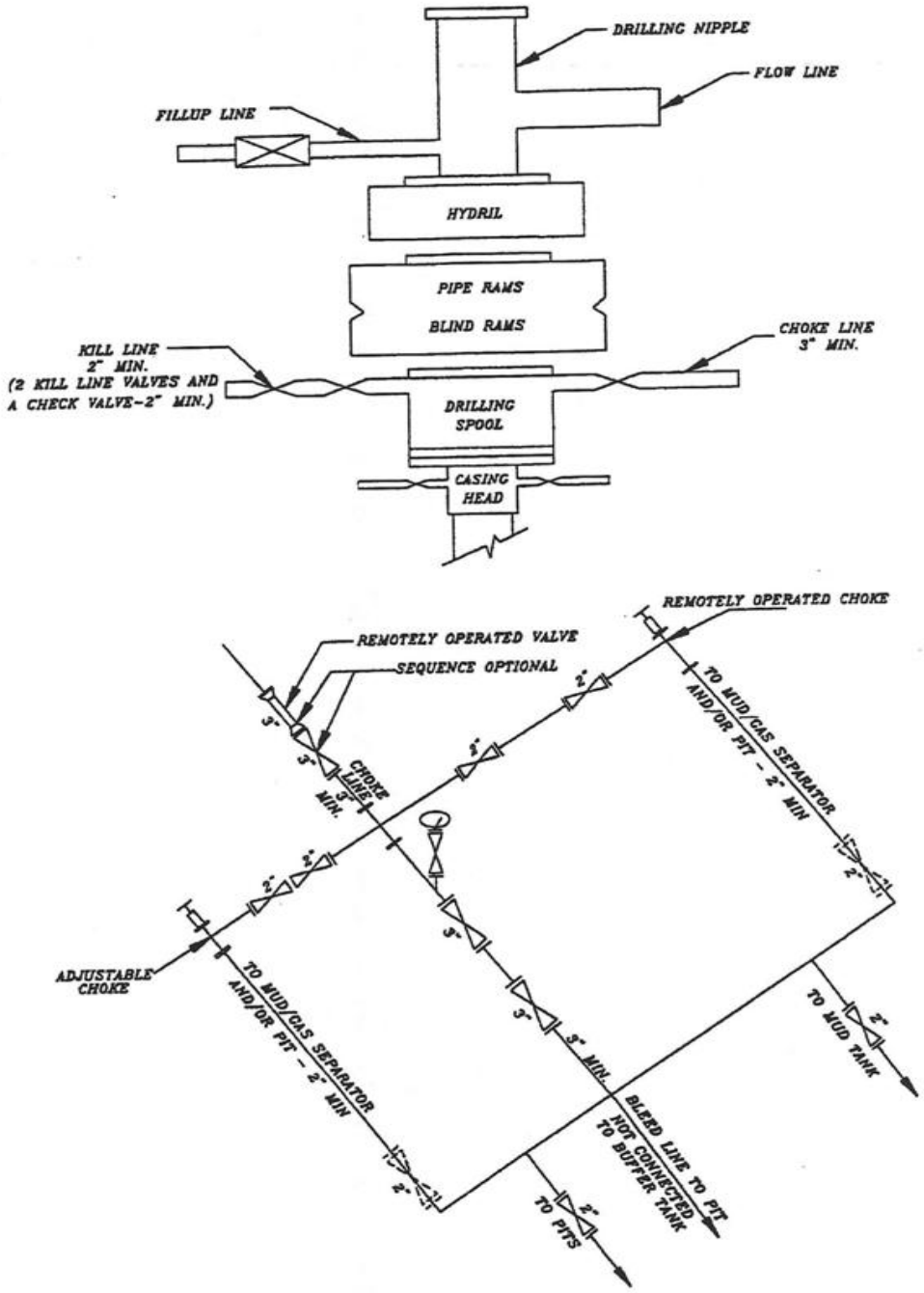
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

'APIWellNo:43047513950000'

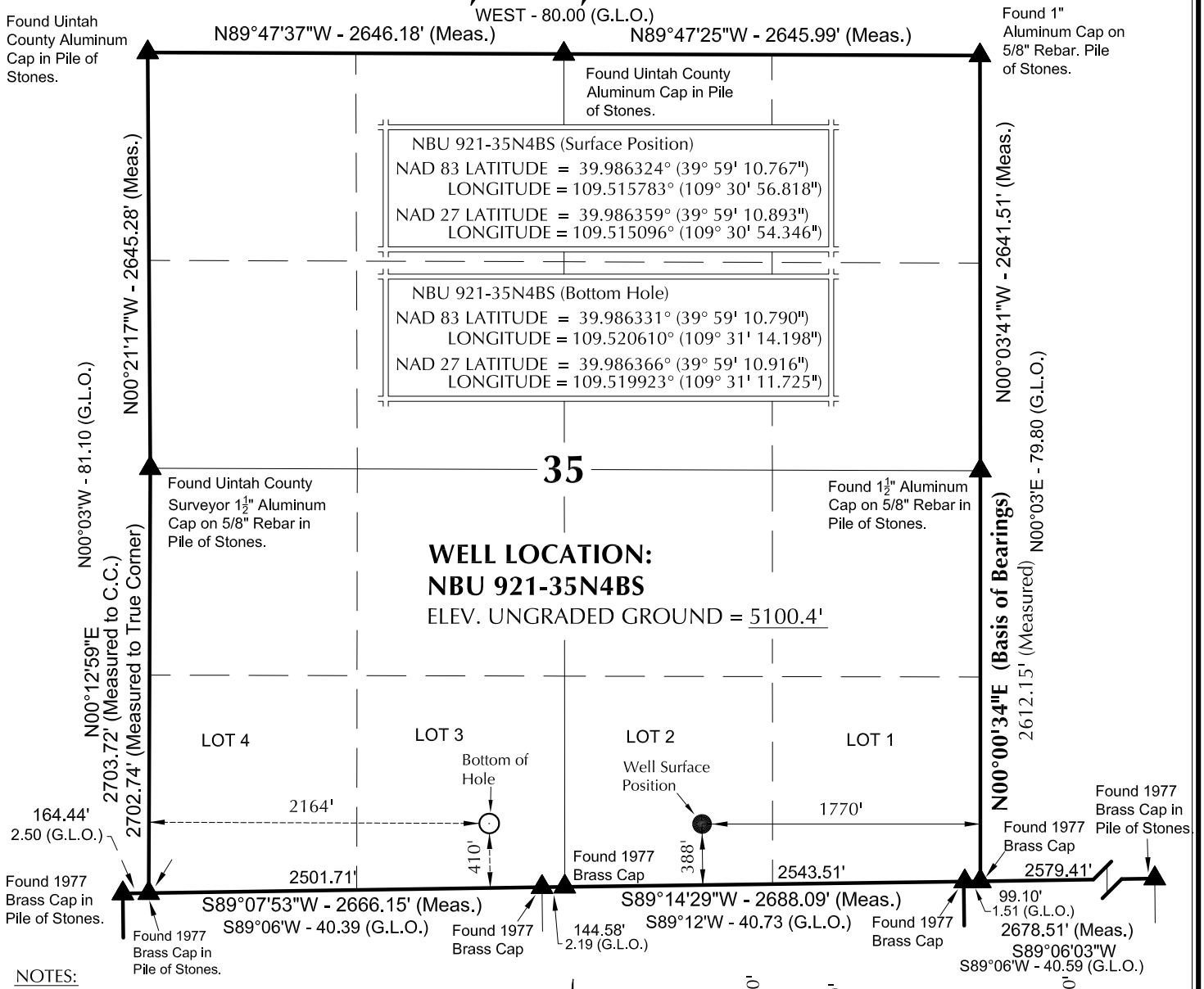
EXHIBIT A
NBU 921-35N4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

'APIWellNo:43047513950000'

T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N89°51'55"W 1353.13' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
No.6028691
JOHN R SLAUGH
STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35O

NBU 921-35N4BS
WELL PLAT
410' FSL, 2164' FWL (Bottom Hole)
LOT 3 OF SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

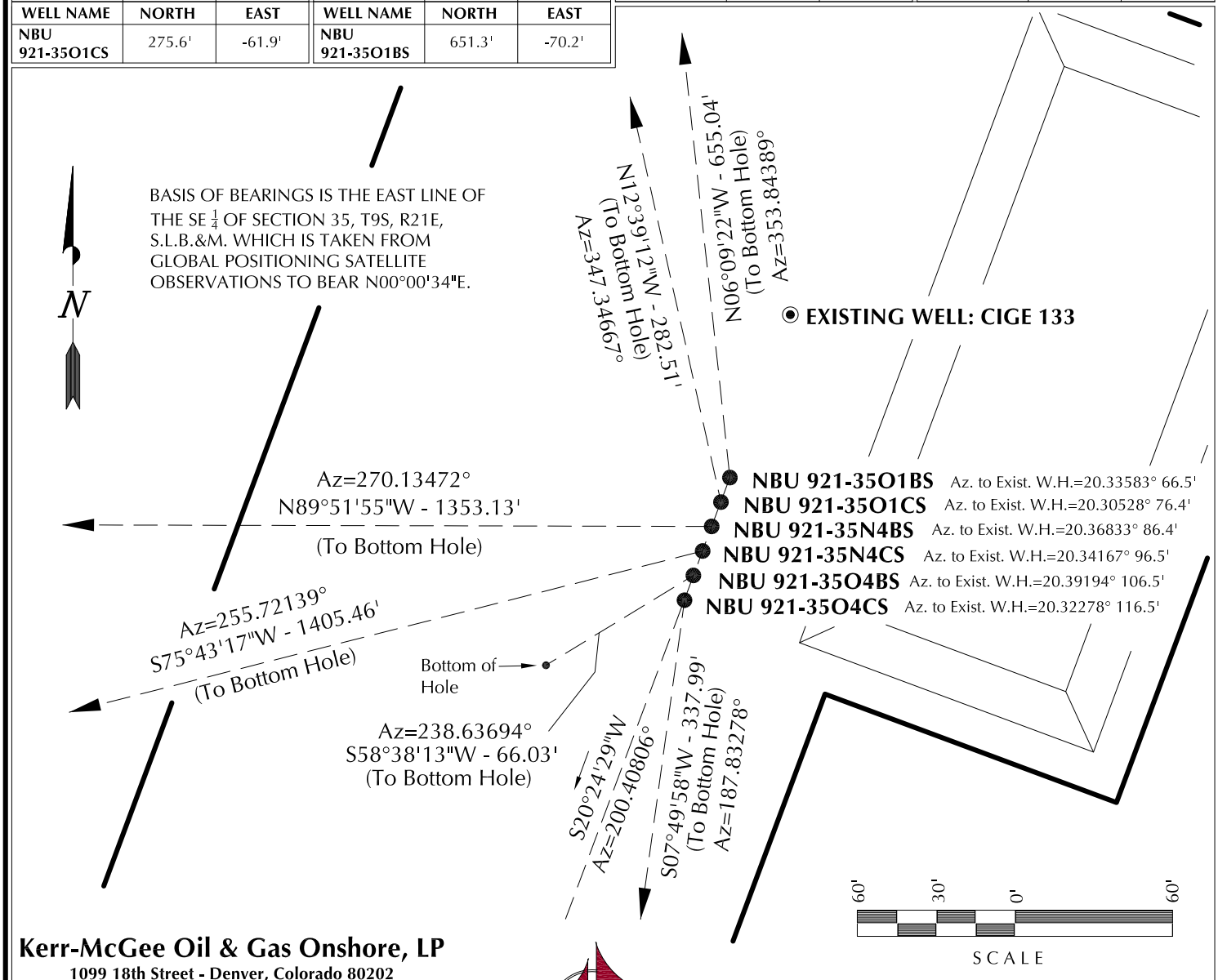
DATE SURVEYED: 9-28-10	SURVEYED BY: M.S.B.	SHEET NO: 4
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	4 OF 18
SCALE: 1" = 1000'	Date Last Revised:	

'APIWellNo:43047513950000'

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 921-35O4CS	39°59'10.488" 39.986247°	109°30'56.951" 109.515820°	39°59'10.614" 39.986282°	109°30'54.479" 109.515133°	360' FSL 1780' FEL	39°59'07.180" 39.985328°	109°30'57.541" 109.515983°	39°59'07.306" 39.985363°	109°30'55.068" 109.515297°	26' FSL 1826' FEL
NBU 921-35O4BS	39°59'10.582" 39.986273°	109°30'56.908" 109.515808°	39°59'10.708" 39.986308°	109°30'54.436" 109.515121°	370' FSL 1777' FEL	39°59'10.242" 39.986178°	109°30'57.632" 109.516009°	39°59'10.368" 39.986213°	109°30'55.159" 109.515322°	336' FSL 1833' FEL
NBU 921-35N4CS	39°59'10.674" 39.986298°	109°30'56.863" 109.515795°	39°59'10.800" 39.986333°	109°30'54.390" 109.515108°	379' FSL 1773' FEL	39°59'07.241" 39.985345°	109°31'14.354" 109.520654°	39°59'07.367" 39.985380°	109°31'11.880" 109.519967°	51' FSL 2153' FWL
NBU 921-35N4BS	39°59'10.767" 39.986324°	109°30'56.818" 109.515783°	39°59'10.893" 39.986359°	109°30'54.346" 109.515096°	388' FSL 1770' FEL	39°59'10.790" 39.986331°	109°31'14.198" 109.520610°	39°59'10.916" 39.986366°	109°31'11.725" 109.519923°	410' FSL 2164' FWL
NBU 921-35O1CS	39°59'10.859" 39.986350°	109°30'56.773" 109.515770°	39°59'10.985" 39.986385°	109°30'54.300" 109.515083°	398' FSL 1766' FEL	39°59'13.582" 39.987106°	109°30'57.570" 109.515992°	39°59'13.708" 39.987141°	109°30'55.097" 109.515305°	674' FSL 1828' FEL
NBU 921-35O1BS	39°59'10.952" 39.986375°	109°30'56.729" 109.515758°	39°59'11.078" 39.986410°	109°30'54.256" 109.515071°	407' FSL 1763' FEL	39°59'17.386" 39.988163°	109°30'57.636" 109.516010°	39°59'17.512" 39.988198°	109°30'55.163" 109.515323°	1059' FSL 1833' FEL
CIGE 133	39°59'11.568" 39.986547°	109°30'56.433" 109.515676°	39°59'11.694" 39.986582°	109°30'53.960" 109.514989°	469' FSL 1740' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35O4CS	-334.8'	-46.1'	NBU 921-35O4BS	-34.4'	-56.4'	NBU 921-35N4CS	-346.6'	-1,362.0'	NBU 921-35N4BS	3.2'	-1,353.1'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST						
NBU 921-35O1CS	275.6'	-61.9'	NBU 921-35O1BS	651.3'	-70.2'						



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35O

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35O4CS, NBU 921-35O4BS, NBU 921-35N4CS, NBU 921-35N4BS, NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
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209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 9-28-10	SURVEYED BY: M.S.B.	SHEET NO: 7
DATE DRAWN: 9-29-10	DRAWN BY: M.W.W.	7 OF 18
SCALE: 1" = 60'	Date Last Revised:	

'APIWellNo:43047513950000'

8" GAS LINE
6" (MAX.) LIQUID LINE

PROPOSED 4"
GAS PIPELINE
RE-ROUTE

12" GAS LINE
6" (MAX.) LIQUID LINE

8" GAS LINE
6" (MAX) LIQUID LINE

5100

5110

RESERVE PIT AND
EXCESS CUT STOCKPILE

TOPSOIL
STOCKPILE

GLEN BENCH
ROAD (PAVED),
COUNTY B
ROAD 3260

N12°39'12"W - 282.57'
(TO BOTTOM HOLE)

EXISTING TANKS
AND BERM

EXISTING METER/
SEPARATOR

ANCHOR

EXISTING
METHANOL
TANK

MOVE EXISTING
SPOILS PILE TO
PROPOSED
LOCATION

N06°09'22"W - 655.04'
(TO BOTTOM HOLE)

RECLAIMED
PIT

RESERVE PIT
12' DEPTH
SLOPE 1.5:1

RESERVE PIT AND
EXCESS CUT STOCKPILE

EXISTING WELL:
CIGE 133

BOILER

GENERATOR

DIESEL TANK

MUD PUMP 1

MUD PUMP 2

MUD TANK

SHAKER

EXISTING
ACCESS ROAD

TOPSOIL STOCKPILE

NBU 921-35O1BS
NBU 921-35O1CS
NBU 921-35N4BS
NBU 921-35N4CS
NBU 921-35O4BS
NBU 921-35O4CS

PIPERACKS

PIPETUBS

DERRICK
STAND

S58°38'13"W - 66.03'
(TO BOTTOM HOLE)

EXISTING
WELL PAD

N89°51'55"W - 1353.13'
(TO BOTTOM HOLE)

S75°43'17"W - 1405.46'
(TO BOTTOM HOLE)

FILL CUT

RESERVE PIT
AND EXCESS
CUT STOCKPILE

PROPOSED 4"
GAS PIPELINE
RE-ROUTE

DESIGN NOTE: AFTER WELLS ARE
DRILLED AND INTERIM WELL PAD
RECLAMATION IS COMPLETED,
CONSTRUCT DIVERSION DITCH TO
ALLOW FOR SURFACE DRAINAGE.

PROPOSED
ACCESS ROAD
RE-ROUTE

TOPSOIL
STOCKPILE

S07°49'58"W - 337.99'
(TO BOTTOM HOLE)

PLEASE NOTE: LOCATIONS OF PROPOSED
PIPELINES DISPLAYED WITHIN THE PAD AREA
ARE FOR VISUALIZATION PURPOSES ONLY.
ACTUAL LOCATIONS TO BE DETERMINED
DURING CONSTRUCTION.

WELL PAD - NBU 921-35O DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5100.4'
FINISHED GRADE ELEVATION = 5099.8'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.62 ACRES
TOTAL DAMAGE AREA = 6.49 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,694 C.Y.
TOTAL FILL FOR WELL PAD = 2,423 C.Y.
TOPSOIL @ 6" DEPTH = 2,240 C.Y.
EXCESS MATERIAL = 11,271 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

WELL PAD - NBU 921-35O

WELL PAD - LOCATION LAYOUT
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

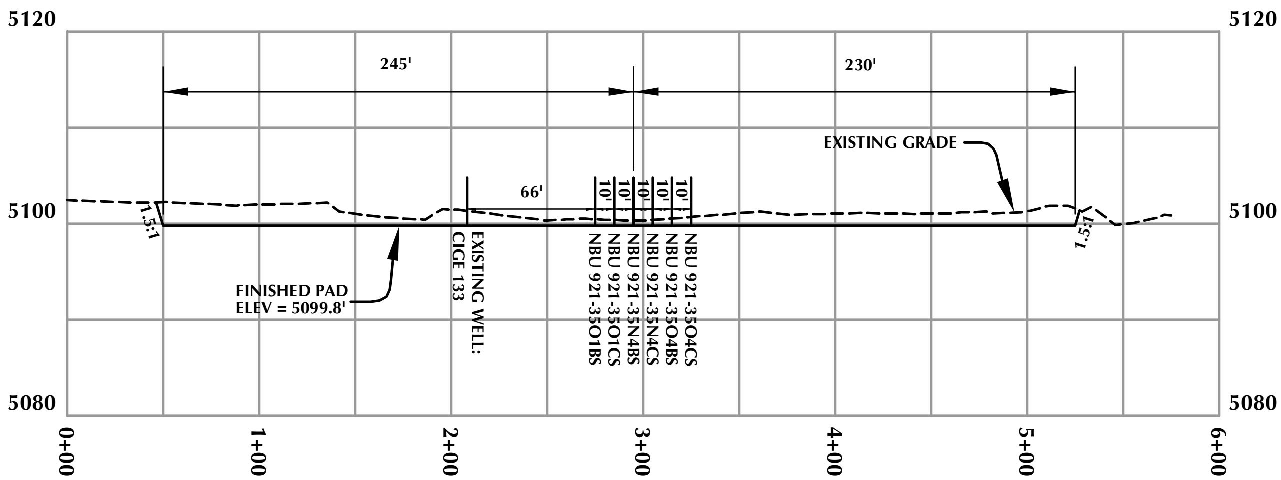
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

WELL PAD LEGEND

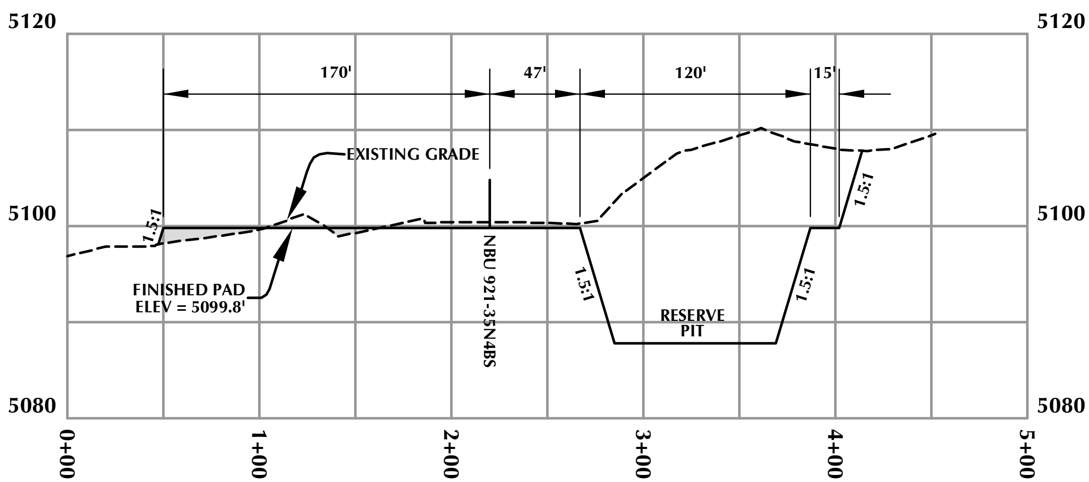
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' | Date: 10/15/10 | SHEET NO: 8 8 OF 18
REVISED: JFE 12/9/10



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35O

WELL PAD - CROSS SECTIONS
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
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Sheridan, WY 82801
Phone 307-674-0609
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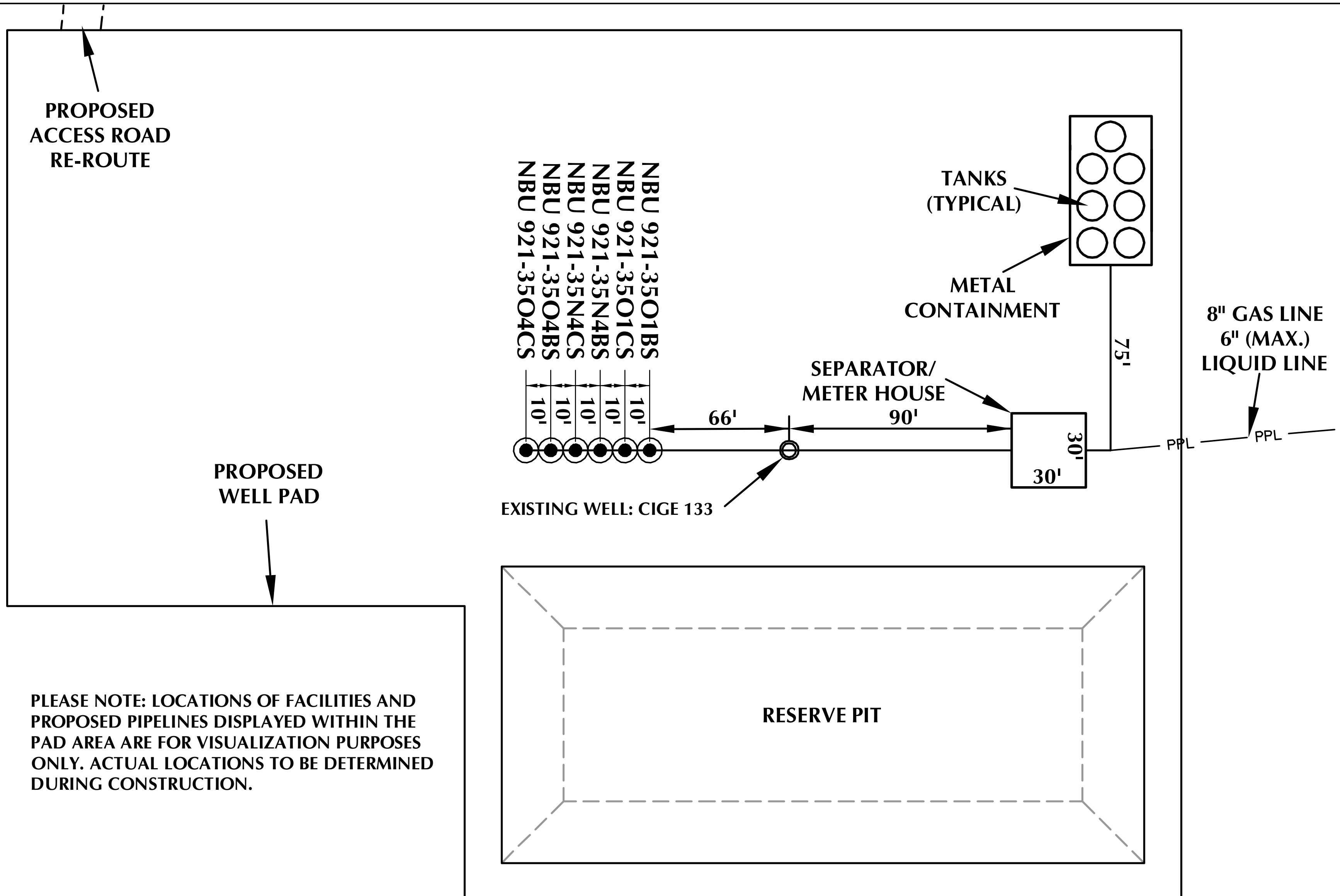
HORIZONTAL 0 50 100 1" = 100'
VERTICAL 0 10 20 1" = 20'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 10/15/10 | SHEET NO: 9 | 9 OF 18
REVISED:

'APIWellNo:43047513950000'
K:\ANADARKO\2010_53_NBU_FOCUS_SEC_921-35\DWG\NBU 921-35O\NBU 921-35O_20100930.dwg, 10/19/2010 5:20:26 PM



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35O

WELL PAD - FACILITIES DIAGRAM
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' | Date: 10/15/10 | SHEET NO: 10 10 OF 18
REVISED:

'APIWellNo:43047513950000'
NBU 921-35O_20100930.dwg, 10/19/2010 5:21:32 PM

'APIWellNo:43047513950000'

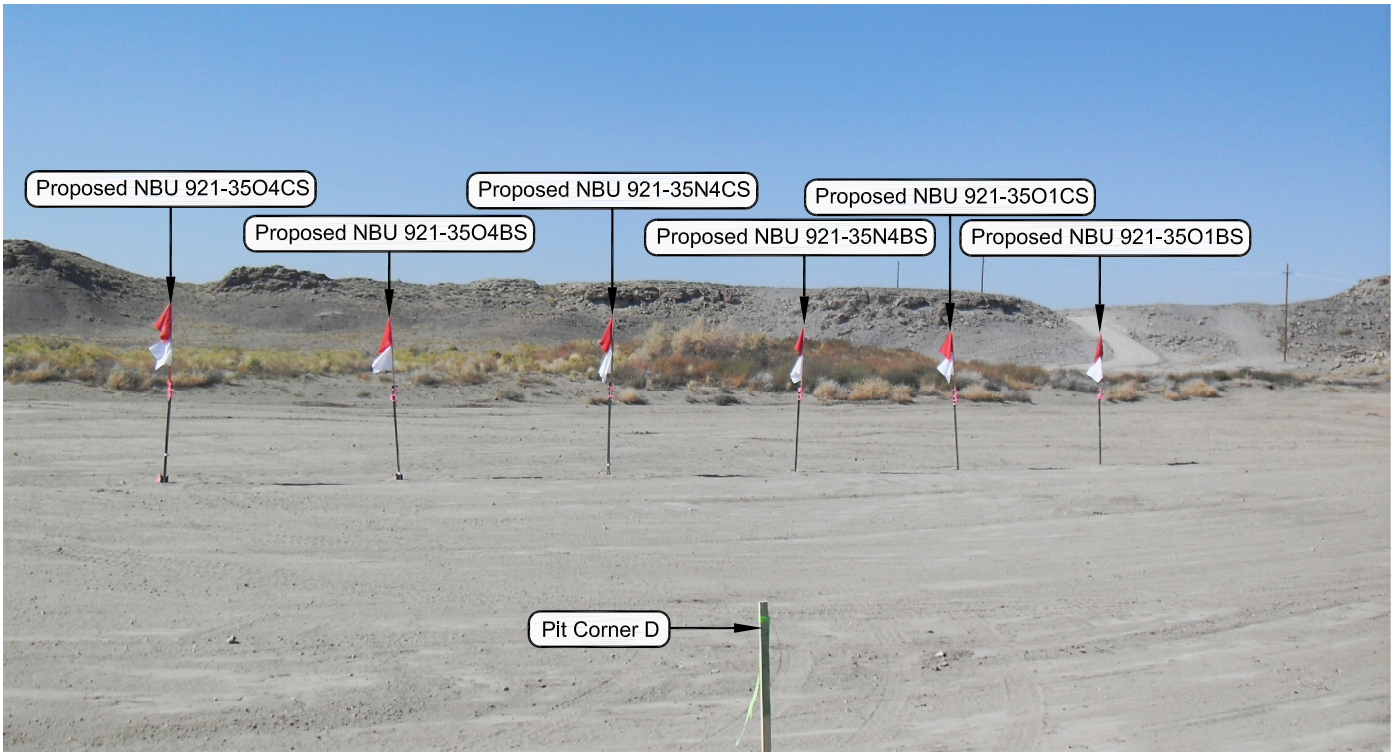


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE **CAMERA ANGLE: NORTHWESTERLY**

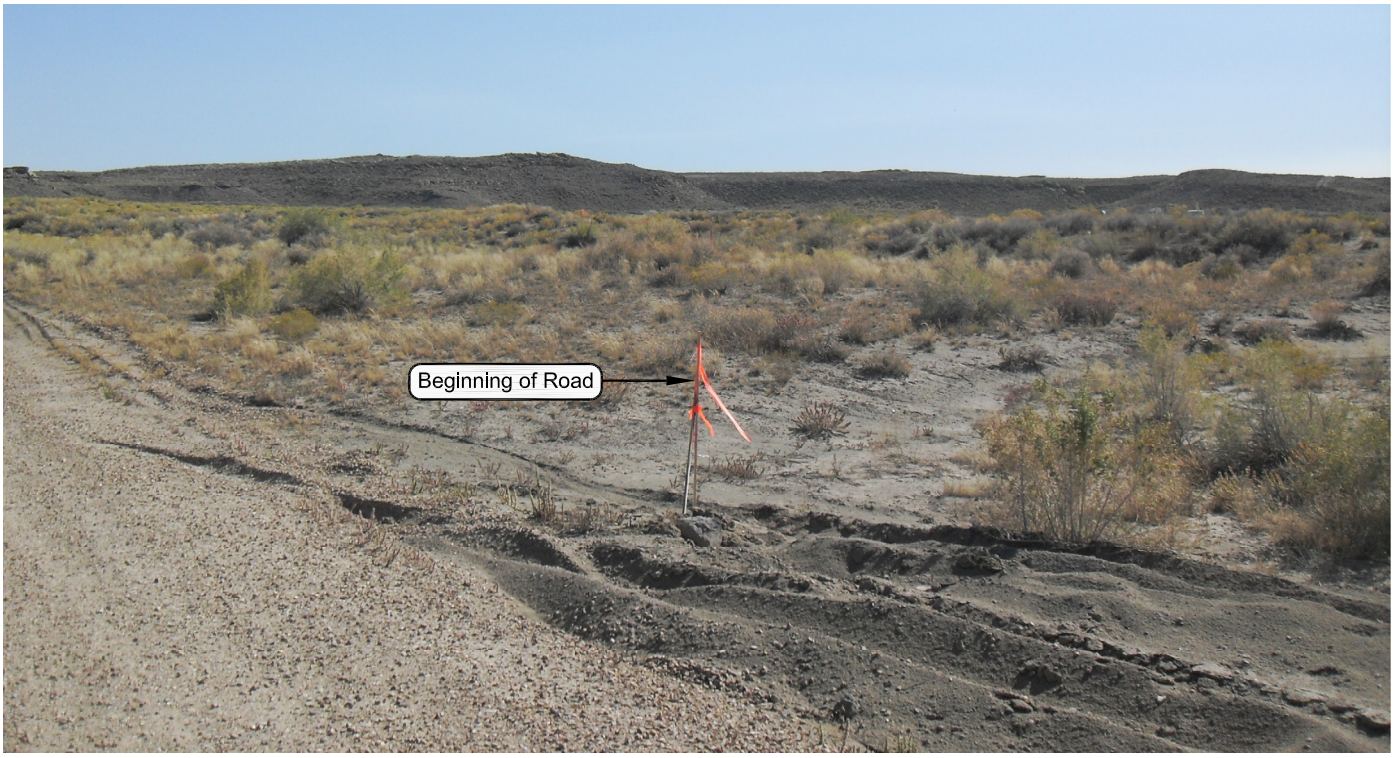


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD **CAMERA ANGLE: SOUTHEASTERLY**

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35O

LOCATION PHOTOS
NBU 921-35O4CS, NBU 921-35O4BS, NBU 921-35N4CS, NBU 921-35N4BS, NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

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Sheridan WY 82801
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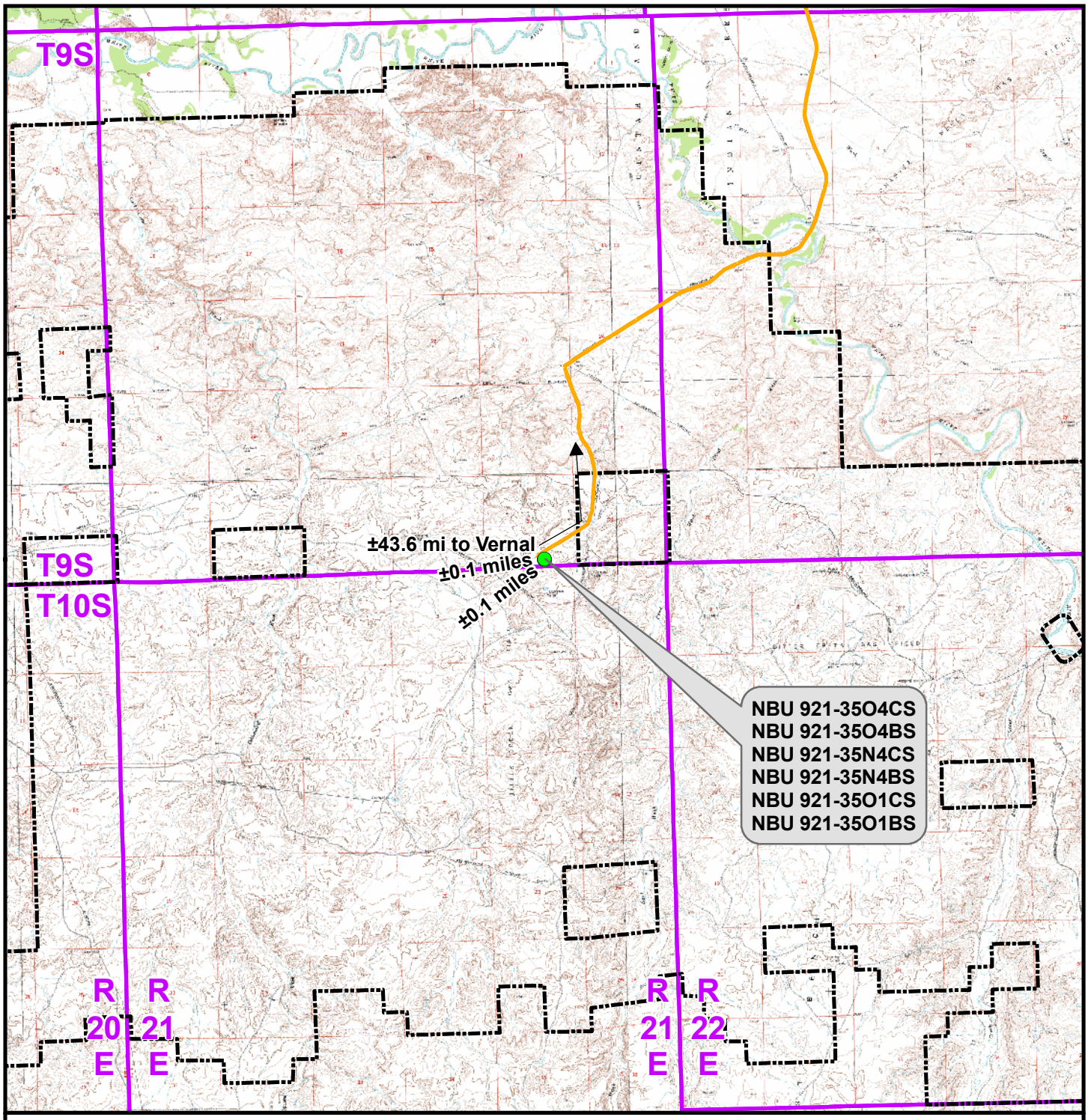
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 9-28-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 11
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	
Date Last Revised:		11 OF 18

'APIWellNo:43047513950000'



Legend

Distance From Well Pad - NBU 921-35O To Unit Boundary: ±1,763ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

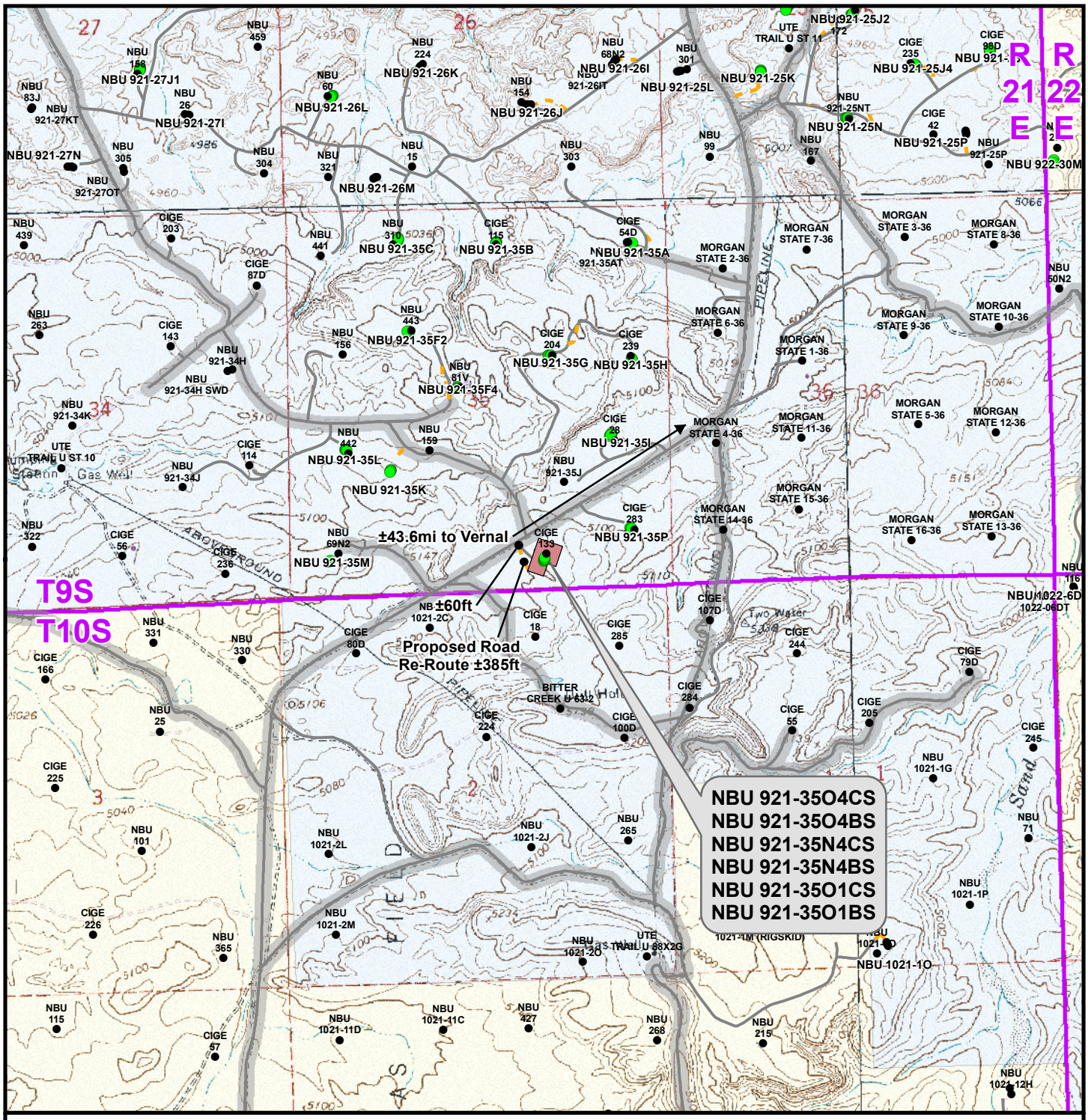
TOPO A
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 12	12 of 18
Drawn: KGS	Date: 19 Oct 2010		
Revised:	Date:		

'APIWellNo:43047513950000'



Legend

Total Proposed Road Re-Route Length: ±385ft

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

TOPO B

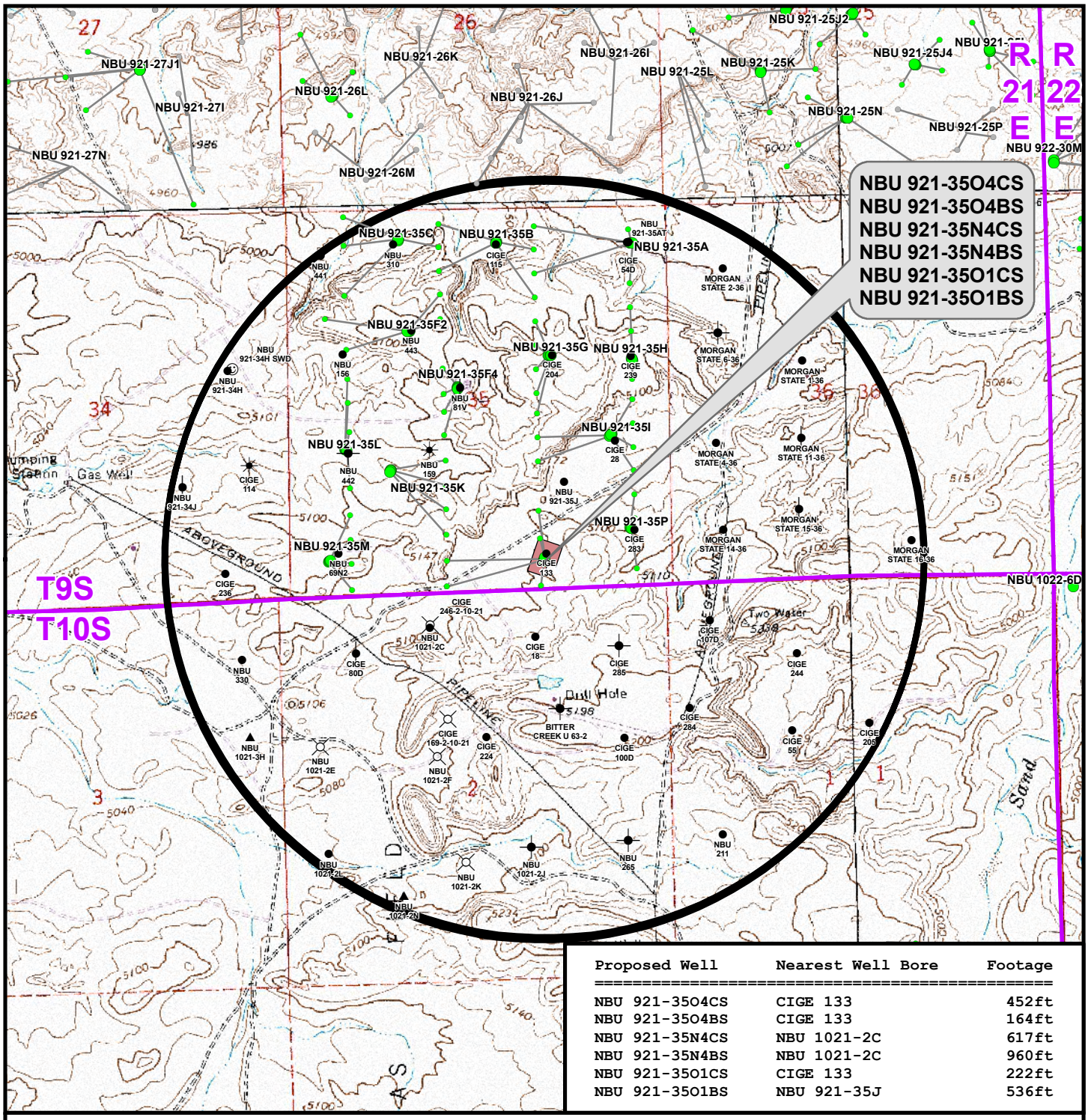
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13	13 of 18
Drawn: KGS	Date: 19 Oct 2010		
Revised:	Date:		

'APIWellNo:43047513950000'



Proposed Well	Nearest Well Bore	Footage
NBU 921-35O4CS	CIGE 133	452ft
NBU 921-35O4BS	CIGE 133	164ft
NBU 921-35N4CS	NBU 1021-2C	617ft
NBU 921-35N4BS	NBU 1021-2C	960ft
NBU 921-35O1CS	CIGE 133	222ft
NBU 921-35O1BS	NBU 921-35J	536ft

Legend

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well Path
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Pad
- Well - 1 Mile Radius

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

TOPO C

NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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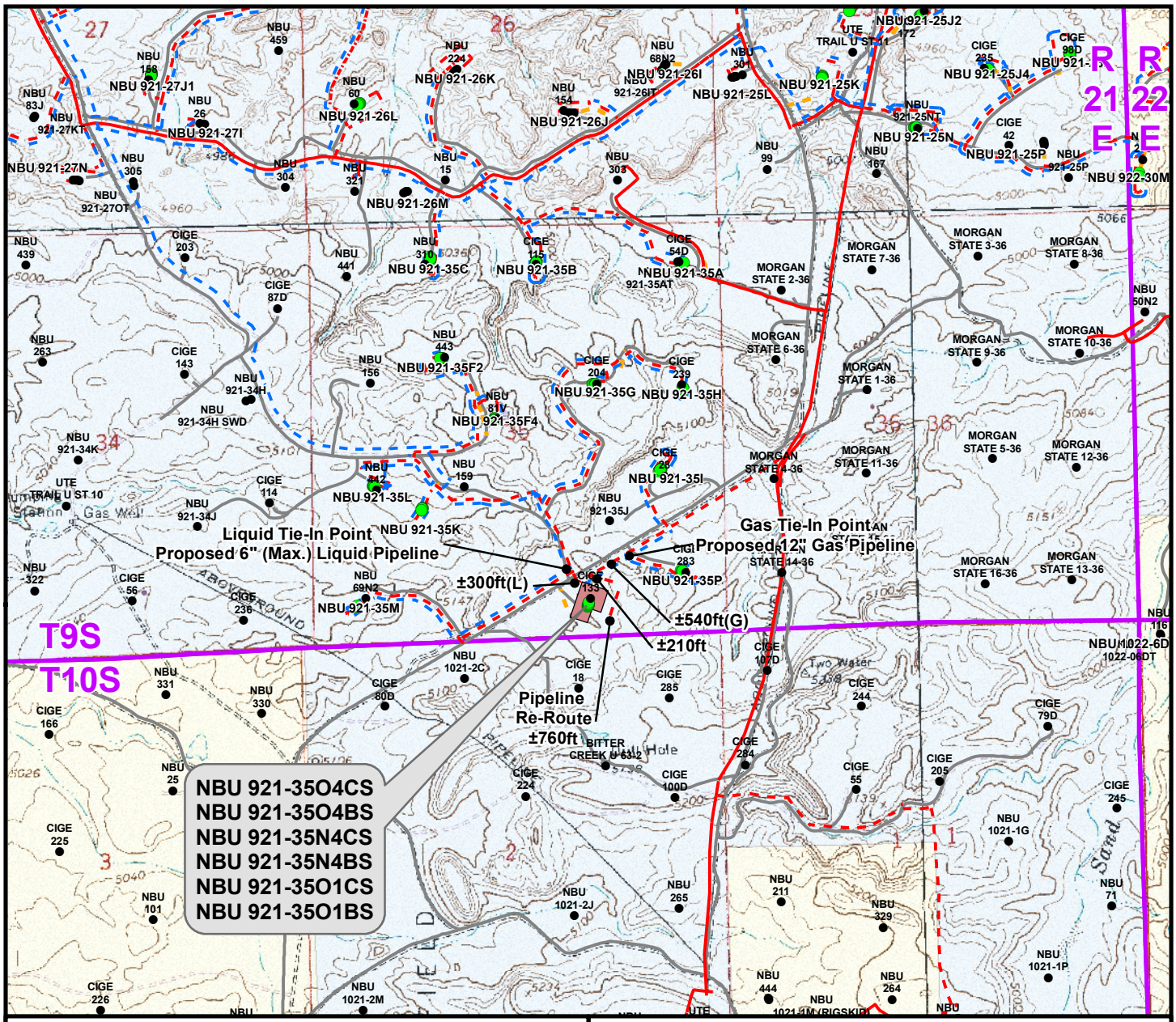
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14 of 18	
Drawn: KGS	Date: 19 Oct 2010		
Revised:	Date:		

'APIWellNo:43047513950000'



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±60ft
Proposed 6" (Max.) (Edge of Pad to 35P Intersection)	±210ft
Proposed 6" (Max.) (35P Intersection to 35M Intersection)	±300ft
TOTAL PROPOSED LIQUID PIPELINE =	±570ft

Proposed Gas Pipeline	Length
Proposed 8" (Meter House to Edge of Pad)	±60ft
Proposed 8" (Edge of Pad to 35M Intersection)	±210ft
Proposed 12"(35M Intersection to 35P Intersection)	±540ft
Proposed 4" (Pipeline Re-Route)	±760ft
TOTAL PROPOSED GAS PIPELINE =	±1,570ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

TOPO D
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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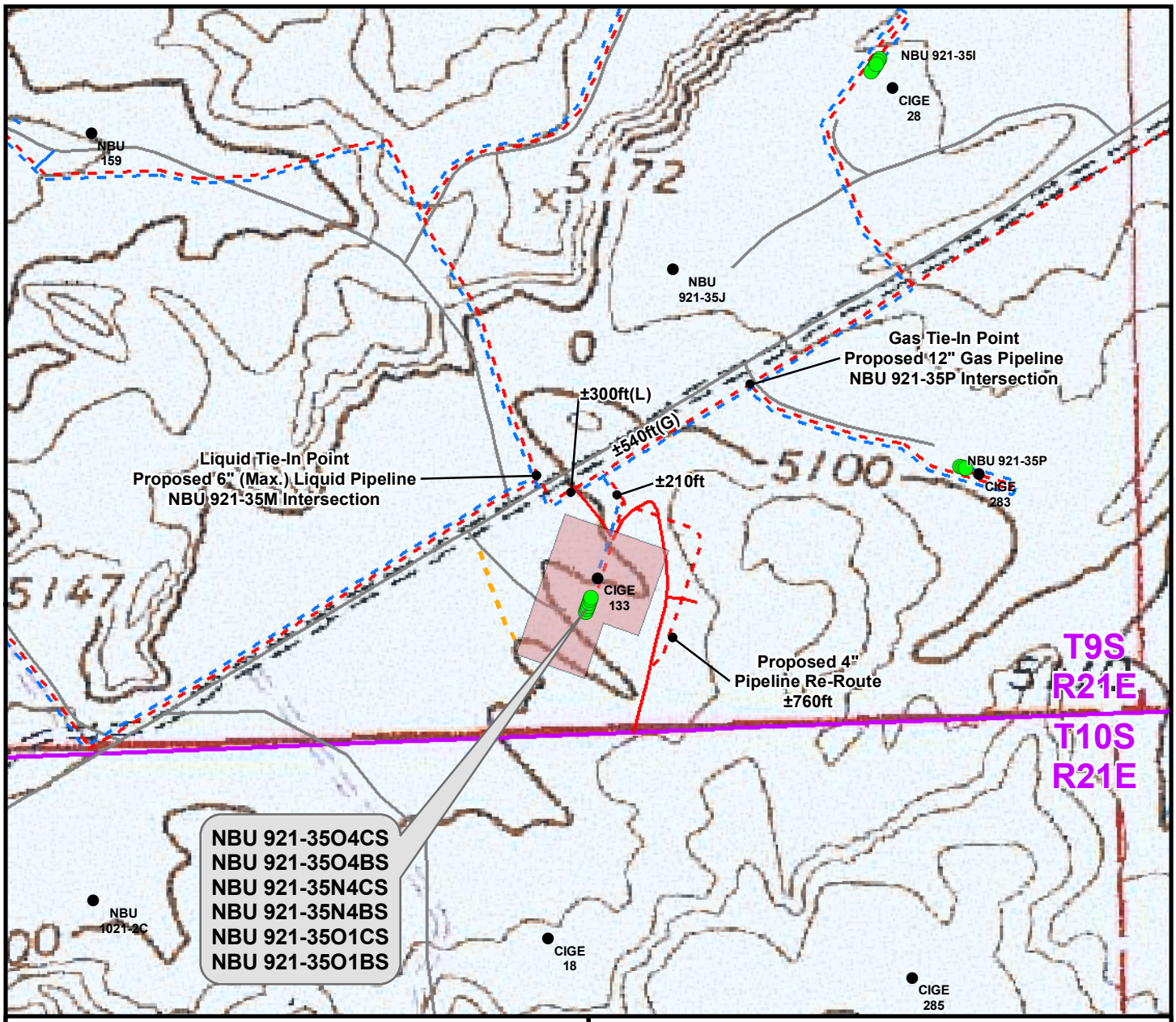
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15	15 of 18
Drawn: KGS	Date: 19 Oct 2010		
Revised:	Date:		

'APIWellNo:43047513950000'



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±60ft
Proposed 6" (Max.) (Edge of Pad to 35P Intersection)	±210ft
Proposed 6" (Max.) (35P Intersection to 35M Intersection)	±300ft
TOTAL PROPOSED LIQUID PIPELINE =	±570ft

Proposed Gas Pipeline	Length
Proposed 8" (Meter House to Edge of Pad)	±60ft
Proposed 8" (Edge of Pad to 35M Intersection)	±210ft
Proposed 12"(35M Intersection to 35P Intersection)	±540ft
Proposed 4" (Pipeline Re-Route)	±760ft
TOTAL PROPOSED GAS PIPELINE =	±1,570ft

Legend

Well - Proposed; Well - Existing; Well Pad; Gas Pipeline - Proposed; Gas Pipeline - To Be Upgraded; Gas Pipeline - Existing; Liquid Pipeline - Proposed; Liquid Pipeline - To Be Upgraded; Liquid Pipeline - Existing; Road - Proposed; Road - Existing; Bureau of Land Management; Indian Reservation; State; Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
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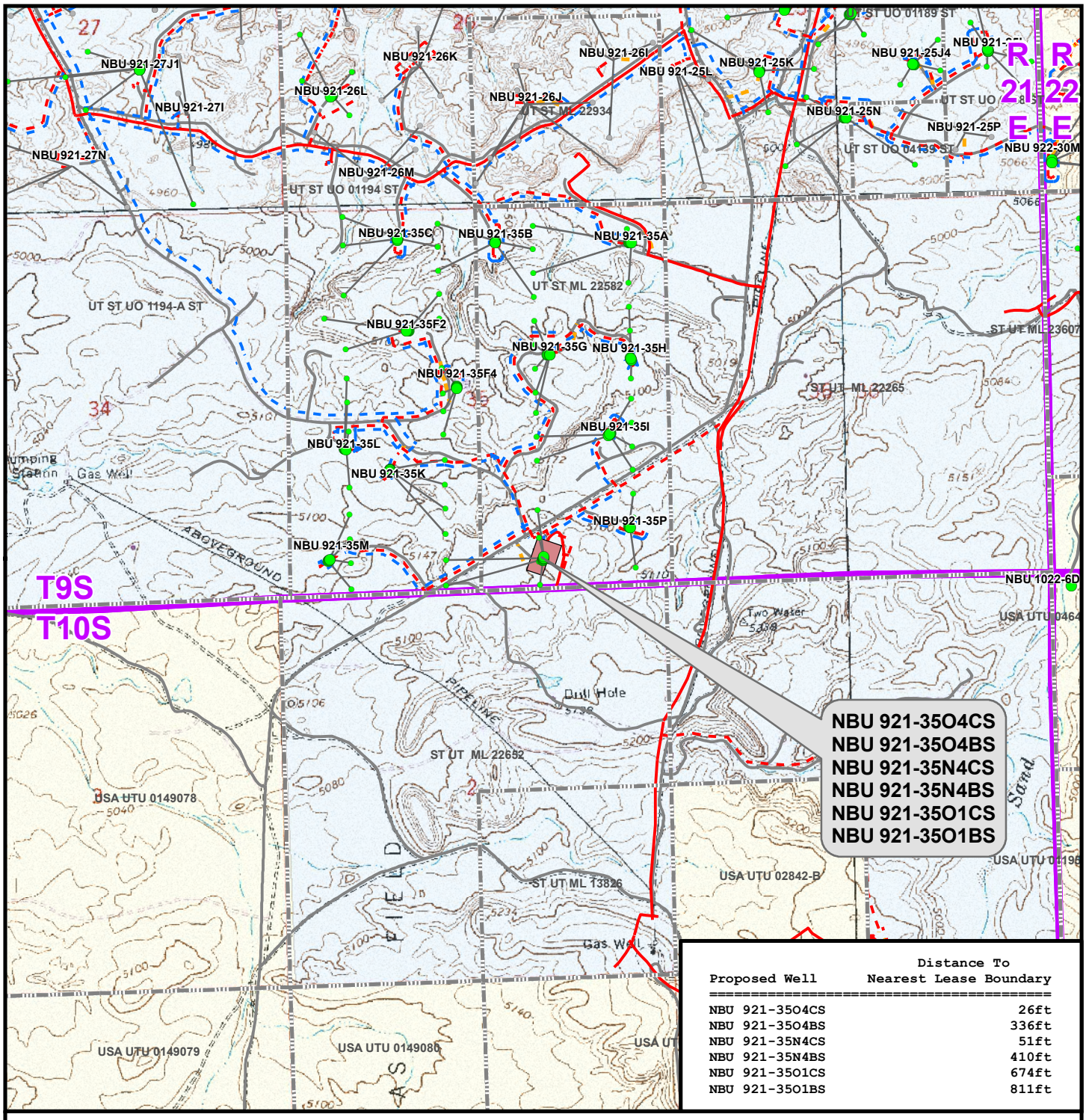
N

Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 16 of 18
Drawn: KGS Date: 19 Oct 2010		
Revised: Date:		

'APIWellNo:43047513950000'



Proposed Well	Distance To Nearest Lease Boundary
NBU 921-35O4CS	26ft
NBU 921-35O4BS	336ft
NBU 921-35N4CS	51ft
NBU 921-35N4BS	410ft
NBU 921-35O1CS	674ft
NBU 921-35O1BS	811ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35O

TOPO E

NBU 921-35O4CS, NBU 921-35O4BS, NBU 921-35N4CS, NBU 921-35N4BS, NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
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N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	
Drawn: KGS	Date: 19 Oct 2010	17	17 of 18
Revised:	Date:		

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35O
WELLS – NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
Section 35, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.1 miles to a service road to the southeast. Exit left and proceed in a southeasterly direction along the service road approximately 60 feet to the proposed access road. Follow road flags in a southeasterly direction approximately 385 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 43.7 miles in a southerly direction.

'APIWellNo:43047513950000'

Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-35O PAD
Well: P_NBU 921-35N4BS
Wellbore: P_NBU 921-35N4BS
Design: PLAN #1 11-17-10 RHS

Anadarko Petroleum Corporation

WELL DETAILS: P_NBU 921-35N4BS

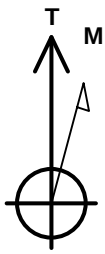
GL 5100' & KB 4'
@ 5104.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14524541.29	2056367.31	39° 59' 10.892 N	109° 30' 54.346 W

DESIGN TARGET DETAILS

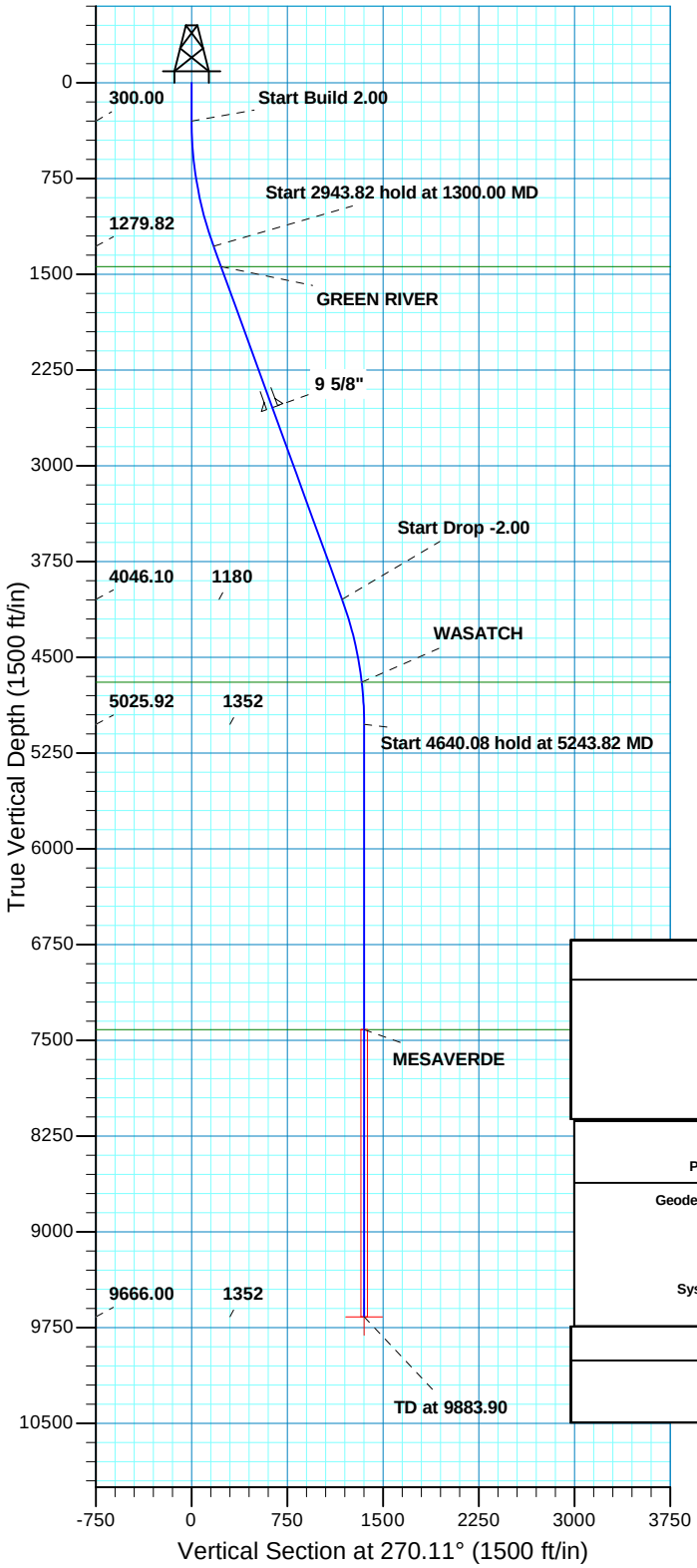
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9666.00	2.59	-1352.38	14524521.35	2055015.08	39° 59' 10.918 N	109° 31' 11.723 W	Circle (Radius: 25.00)

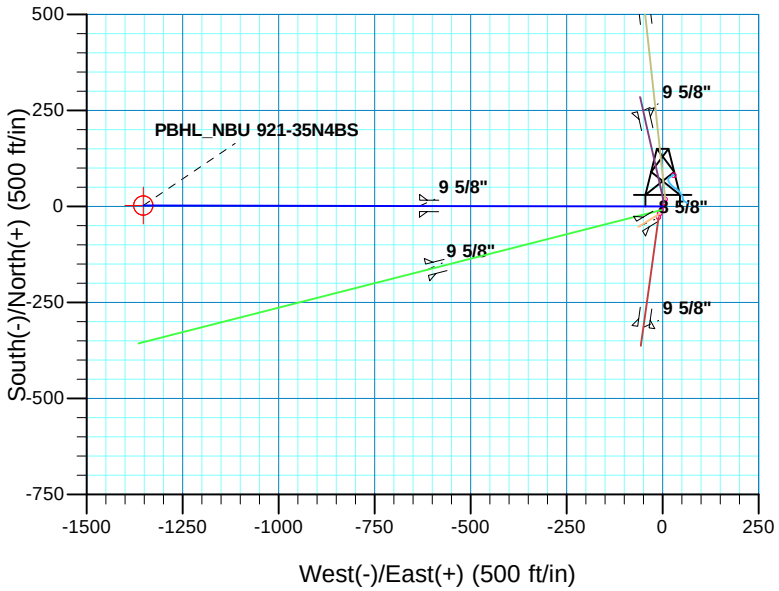
- plan hits target center



Azimuths to True North
Magnetic North: 11.16°

Magnetic Field
Strength: 52378.2snT
Dip Angle: 65.87°
Date: 11/08/2010
Model: IGRF2010





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	270.11	1279.82	0.33	-172.77	2.00	270.11	172.77	
4243.82	20.00	270.11	4046.10	2.26	-1179.61	0.00	0.00	1179.61	
5243.82	0.00	0.00	5025.92	2.59	-1352.38	2.00	180.00	1352.38	
9883.90	0.00	0.00	9666.00	2.59	-1352.38	0.00	0.00	1352.38	PBHL_NBU 921-35N4BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 35 T9S R21E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1441.00	1471.53	GREEN RIVER
4695.00	4912.16	WASATCH
7416.00	7633.90	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2544.00	2645.32	9 5/8"	9.625

Plan: PLAN #1 11-17-10 RHS (P_NBU 921-35N4BS/P_NBU 921-35N4BS)

Created By: RobertScott Date: 10:06, November 17 2010

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-35O PAD
P_NBU 921-35N4BS

P_NBU 921-35N4BS

Plan: PLAN #1 11-17-10 RHS

Standard Planning Report

17 November, 2010

Anadarko
Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E

Site Position:		**Northing:**	14,524,559.98 usft	**Latitude:**	39° 59' 11.076 N
From:	Lat/Long	**Easting:**	2,056,374.00 usft	**Longitude:**	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.95 °

Well P_NBU 921-35N4BS, 388 FSL 1770 FEL

Well Position	**+N/-S**	-18.57 ft	**Northing:**	14,524,541.29 usft	**Latitude:**	39° 59' 10.892 N
	+E/-W	-7.00 ft	**Easting:**	2,056,367.31 usft	**Longitude:**	109° 30' 54.346 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,100.00 ft

Wellbore P_NBU 921-35N4BS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.87	52,378

Design PLAN #1 11-17-10 RHS

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	270.11

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	270.11	1,279.82	0.33	-172.77	2.00	2.00	0.00	270.11	
4,243.82	20.00	270.11	4,046.10	2.26	-1,179.61	0.00	0.00	0.00	0.00	
5,243.82	0.00	0.00	5,025.92	2.59	-1,352.38	2.00	-2.00	0.00	180.00	
9,883.90	0.00	0.00	9,666.00	2.59	-1,352.38	0.00	0.00	0.00	0.00	PBHL_NBU 921-35N4

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	270.11	399.98	0.00	-1.75	1.75	2.00	2.00	0.00
500.00	4.00	270.11	499.84	0.01	-6.98	6.98	2.00	2.00	0.00
600.00	6.00	270.11	599.45	0.03	-15.69	15.69	2.00	2.00	0.00
700.00	8.00	270.11	698.70	0.05	-27.88	27.88	2.00	2.00	0.00
800.00	10.00	270.11	797.47	0.08	-43.52	43.52	2.00	2.00	0.00
900.00	12.00	270.11	895.62	0.12	-62.60	62.60	2.00	2.00	0.00
1,000.00	14.00	270.11	993.06	0.16	-85.10	85.10	2.00	2.00	0.00
1,100.00	16.00	270.11	1,089.64	0.21	-110.98	110.98	2.00	2.00	0.00
1,200.00	18.00	270.11	1,185.27	0.27	-140.21	140.21	2.00	2.00	0.00
1,300.00	20.00	270.11	1,279.82	0.33	-172.77	172.77	2.00	2.00	0.00
Start 2943.82 hold at 1300.00 MD									
1,400.00	20.00	270.11	1,373.78	0.40	-206.97	206.97	0.00	0.00	0.00
1,471.53	20.00	270.11	1,441.00	0.44	-231.43	231.43	0.00	0.00	0.00
GREEN RIVER									
1,500.00	20.00	270.11	1,467.75	0.46	-241.17	241.17	0.00	0.00	0.00
1,600.00	20.00	270.11	1,561.72	0.53	-275.37	275.37	0.00	0.00	0.00
1,700.00	20.00	270.11	1,655.69	0.59	-309.58	309.58	0.00	0.00	0.00
1,800.00	20.00	270.11	1,749.66	0.66	-343.78	343.78	0.00	0.00	0.00
1,900.00	20.00	270.11	1,843.63	0.72	-377.98	377.98	0.00	0.00	0.00
2,000.00	20.00	270.11	1,937.60	0.79	-412.18	412.18	0.00	0.00	0.00
2,100.00	20.00	270.11	2,031.57	0.85	-446.38	446.38	0.00	0.00	0.00
2,200.00	20.00	270.11	2,125.54	0.92	-480.59	480.59	0.00	0.00	0.00
2,300.00	20.00	270.11	2,219.51	0.98	-514.79	514.79	0.00	0.00	0.00
2,400.00	20.00	270.11	2,313.48	1.05	-548.99	548.99	0.00	0.00	0.00
2,500.00	20.00	270.11	2,407.45	1.12	-583.19	583.19	0.00	0.00	0.00
2,600.00	20.00	270.11	2,501.42	1.18	-617.39	617.39	0.00	0.00	0.00
2,645.32	20.00	270.11	2,544.00	1.21	-632.89	632.89	0.00	0.00	0.00
9 5/8"									
2,700.00	20.00	270.11	2,595.39	1.25	-651.59	651.60	0.00	0.00	0.00
2,800.00	20.00	270.11	2,689.35	1.31	-685.80	685.80	0.00	0.00	0.00
2,900.00	20.00	270.11	2,783.32	1.38	-720.00	720.00	0.00	0.00	0.00
3,000.00	20.00	270.11	2,877.29	1.44	-754.20	754.20	0.00	0.00	0.00
3,100.00	20.00	270.11	2,971.26	1.51	-788.40	788.40	0.00	0.00	0.00
3,200.00	20.00	270.11	3,065.23	1.57	-822.60	822.61	0.00	0.00	0.00
3,300.00	20.00	270.11	3,159.20	1.64	-856.81	856.81	0.00	0.00	0.00
3,400.00	20.00	270.11	3,253.17	1.70	-891.01	891.01	0.00	0.00	0.00
3,500.00	20.00	270.11	3,347.14	1.77	-925.21	925.21	0.00	0.00	0.00
3,600.00	20.00	270.11	3,441.11	1.84	-959.41	959.41	0.00	0.00	0.00
3,700.00	20.00	270.11	3,535.08	1.90	-993.61	993.62	0.00	0.00	0.00
3,800.00	20.00	270.11	3,629.05	1.97	-1,027.82	1,027.82	0.00	0.00	0.00
3,900.00	20.00	270.11	3,723.02	2.03	-1,062.02	1,062.02	0.00	0.00	0.00
4,000.00	20.00	270.11	3,816.99	2.10	-1,096.22	1,096.22	0.00	0.00	0.00
4,100.00	20.00	270.11	3,910.95	2.16	-1,130.42	1,130.42	0.00	0.00	0.00
4,200.00	20.00	270.11	4,004.92	2.23	-1,164.62	1,164.63	0.00	0.00	0.00
4,243.82	20.00	270.11	4,046.10	2.26	-1,179.61	1,179.61	0.00	0.00	0.00
Start Drop -2.00									

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Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	18.88	270.11	4,099.08	2.29	-1,198.31	1,198.31	2.00	-2.00	0.00
4,400.00	16.88	270.11	4,194.25	2.35	-1,229.00	1,229.00	2.00	-2.00	0.00
4,500.00	14.88	270.11	4,290.43	2.40	-1,256.36	1,256.36	2.00	-2.00	0.00
4,600.00	12.88	270.11	4,387.50	2.45	-1,280.34	1,280.34	2.00	-2.00	0.00
4,700.00	10.88	270.11	4,485.36	2.49	-1,300.92	1,300.92	2.00	-2.00	0.00
4,800.00	8.88	270.11	4,583.87	2.52	-1,318.07	1,318.07	2.00	-2.00	0.00
4,900.00	6.88	270.11	4,682.92	2.55	-1,331.77	1,331.77	2.00	-2.00	0.00
4,912.16	6.63	270.11	4,695.00	2.55	-1,333.20	1,333.21	2.00	-2.00	0.00
WASATCH									
5,000.00	4.88	270.11	4,782.39	2.57	-1,342.01	1,342.01	2.00	-2.00	0.00
5,100.00	2.88	270.11	4,882.16	2.58	-1,348.77	1,348.77	2.00	-2.00	0.00
5,200.00	0.88	270.11	4,982.10	2.59	-1,352.04	1,352.05	2.00	-2.00	0.00
5,243.82	0.00	0.00	5,025.92	2.59	-1,352.38	1,352.38	2.00	-2.00	0.00
Start 4640.08 hold at 5243.82 MD									
5,300.00	0.00	0.00	5,082.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,400.00	0.00	0.00	5,182.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,500.00	0.00	0.00	5,282.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,600.00	0.00	0.00	5,382.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,700.00	0.00	0.00	5,482.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,800.00	0.00	0.00	5,582.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
5,900.00	0.00	0.00	5,682.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,000.00	0.00	0.00	5,782.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,100.00	0.00	0.00	5,882.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,200.00	0.00	0.00	5,982.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,300.00	0.00	0.00	6,082.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,400.00	0.00	0.00	6,182.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,500.00	0.00	0.00	6,282.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,600.00	0.00	0.00	6,382.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,700.00	0.00	0.00	6,482.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,800.00	0.00	0.00	6,582.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
6,900.00	0.00	0.00	6,682.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,000.00	0.00	0.00	6,782.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,100.00	0.00	0.00	6,882.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,200.00	0.00	0.00	6,982.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,300.00	0.00	0.00	7,082.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,400.00	0.00	0.00	7,182.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,500.00	0.00	0.00	7,282.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,600.00	0.00	0.00	7,382.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,633.90	0.00	0.00	7,416.00	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
MESAVERDE									
7,700.00	0.00	0.00	7,482.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,800.00	0.00	0.00	7,582.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
7,900.00	0.00	0.00	7,682.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,000.00	0.00	0.00	7,782.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,100.00	0.00	0.00	7,882.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,200.00	0.00	0.00	7,982.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,300.00	0.00	0.00	8,082.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,400.00	0.00	0.00	8,182.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,500.00	0.00	0.00	8,282.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,600.00	0.00	0.00	8,382.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,700.00	0.00	0.00	8,482.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
8,800.00	0.00	0.00	8,582.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,900.00	0.00	0.00	8,682.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,000.00	0.00	0.00	8,782.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,100.00	0.00	0.00	8,882.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,200.00	0.00	0.00	8,982.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,300.00	0.00	0.00	9,082.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,400.00	0.00	0.00	9,182.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,500.00	0.00	0.00	9,282.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,600.00	0.00	0.00	9,382.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,700.00	0.00	0.00	9,482.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,800.00	0.00	0.00	9,582.10	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
9,883.90	0.00	0.00	9,666.00	2.59	-1,352.38	1,352.38	0.00	0.00	0.00
TD at 9883.90 - PBHL_NBU 921-35N4BS									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 921-35N4BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,666.00	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,645.32	2,544.00	9 5/8"	9.625	12.250

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,471.53	1,441.00	GREEN RIVER			
4,912.16	4,695.00	WASATCH			
7,633.90	7,416.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	0.33	-172.77	Start 2943.82 hold at 1300.00 MD
4,243.82	4,046.10	2.26	-1,179.61	Start Drop -2.00
5,243.82	5,025.92	2.59	-1,352.38	Start 4640.08 hold at 5243.82 MD
9,883.90	9,666.00	2.59	-1,352.38	TD at 9883.90

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-35O PAD
P_NBU 921-35N4BS

P_NBU 921-35N4BS

Plan: PLAN #1 11-17-10 RHS

Standard Planning Report - Geographic

17 November, 2010

Anadarko
Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E

Site Position:		**Northing:**	14,524,559.98 usft	**Latitude:**	39° 59' 11.076 N
From:	Lat/Long	**Easting:**	2,056,374.00 usft	**Longitude:**	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.95 °

Well P_NBU 921-35N4BS, 388 FSL 1770 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,524,541.29 usft	**Latitude:**	39° 59' 10.892 N
	+E/-W	0.00 ft	**Easting:**	2,056,367.31 usft	**Longitude:**	109° 30' 54.346 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,100.00 ft

Wellbore P_NBU 921-35N4BS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.87	52,378

Design PLAN #1 11-17-10 RHS

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	270.11

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	270.11	1,279.82	0.33	-172.77	2.00	2.00	0.00	270.11	
4,243.82	20.00	270.11	4,046.10	2.26	-1,179.61	0.00	0.00	0.00	0.00	
5,243.82	0.00	0.00	5,025.92	2.59	-1,352.38	2.00	-2.00	0.00	180.00	
9,883.90	0.00	0.00	9,666.00	2.59	-1,352.38	0.00	0.00	0.00	0.00	PBHL_NBU 921-35N4

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
100.00	0.00	0.00	100.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
200.00	0.00	0.00	200.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
300.00	0.00	0.00	300.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
Start Build 2.00									
400.00	2.00	270.11	399.98	0.00	-1.75	14,524,541.27	2,056,365.56	39° 59' 10.892 N	109° 30' 54.368 W
500.00	4.00	270.11	499.84	0.01	-6.98	14,524,541.19	2,056,360.33	39° 59' 10.893 N	109° 30' 54.435 W
600.00	6.00	270.11	599.45	0.03	-15.69	14,524,541.06	2,056,351.61	39° 59' 10.893 N	109° 30' 54.547 W
700.00	8.00	270.11	698.70	0.05	-27.88	14,524,540.88	2,056,339.43	39° 59' 10.893 N	109° 30' 54.704 W
800.00	10.00	270.11	797.47	0.08	-43.52	14,524,540.65	2,056,323.79	39° 59' 10.893 N	109° 30' 54.905 W
900.00	12.00	270.11	895.62	0.12	-62.60	14,524,540.37	2,056,304.71	39° 59' 10.894 N	109° 30' 55.150 W
1,000.00	14.00	270.11	993.06	0.16	-85.10	14,524,540.04	2,056,282.22	39° 59' 10.894 N	109° 30' 55.439 W
1,100.00	16.00	270.11	1,089.64	0.21	-110.98	14,524,539.65	2,056,256.34	39° 59' 10.894 N	109° 30' 55.772 W
1,200.00	18.00	270.11	1,185.27	0.27	-140.21	14,524,539.22	2,056,227.11	39° 59' 10.895 N	109° 30' 56.147 W
1,300.00	20.00	270.11	1,279.82	0.33	-172.77	14,524,538.74	2,056,194.56	39° 59' 10.896 N	109° 30' 56.566 W
Start 2943.82 hold at 1300.00 MD									
1,400.00	20.00	270.11	1,373.78	0.40	-206.97	14,524,538.24	2,056,160.36	39° 59' 10.896 N	109° 30' 57.005 W
1,471.53	20.00	270.11	1,441.00	0.44	-231.43	14,524,537.88	2,056,135.90	39° 59' 10.897 N	109° 30' 57.319 W
GREEN RIVER									
1,500.00	20.00	270.11	1,467.75	0.46	-241.17	14,524,537.74	2,056,126.16	39° 59' 10.897 N	109° 30' 57.444 W
1,600.00	20.00	270.11	1,561.72	0.53	-275.37	14,524,537.23	2,056,091.96	39° 59' 10.898 N	109° 30' 57.884 W
1,700.00	20.00	270.11	1,655.69	0.59	-309.58	14,524,536.73	2,056,057.76	39° 59' 10.898 N	109° 30' 58.323 W
1,800.00	20.00	270.11	1,749.66	0.66	-343.78	14,524,536.22	2,056,023.57	39° 59' 10.899 N	109° 30' 58.763 W
1,900.00	20.00	270.11	1,843.63	0.72	-377.98	14,524,535.72	2,055,989.37	39° 59' 10.900 N	109° 30' 59.202 W
2,000.00	20.00	270.11	1,937.60	0.79	-412.18	14,524,535.21	2,055,955.17	39° 59' 10.900 N	109° 30' 59.642 W
2,100.00	20.00	270.11	2,031.57	0.85	-446.38	14,524,534.71	2,055,920.97	39° 59' 10.901 N	109° 31' 0.081 W
2,200.00	20.00	270.11	2,125.54	0.92	-480.59	14,524,534.21	2,055,886.77	39° 59' 10.901 N	109° 31' 0.521 W
2,300.00	20.00	270.11	2,219.51	0.98	-514.79	14,524,533.70	2,055,852.57	39° 59' 10.902 N	109° 31' 0.960 W
2,400.00	20.00	270.11	2,313.48	1.05	-548.99	14,524,533.20	2,055,818.38	39° 59' 10.903 N	109° 31' 1.400 W
2,500.00	20.00	270.11	2,407.45	1.12	-583.19	14,524,532.69	2,055,784.18	39° 59' 10.903 N	109° 31' 1.839 W
2,600.00	20.00	270.11	2,501.42	1.18	-617.39	14,524,532.19	2,055,749.98	39° 59' 10.904 N	109° 31' 2.279 W
2,645.32	20.00	270.11	2,544.00	1.21	-632.89	14,524,531.96	2,055,734.48	39° 59' 10.904 N	109° 31' 2.478 W
9 5/8"									
2,700.00	20.00	270.11	2,595.39	1.25	-651.59	14,524,531.68	2,055,715.78	39° 59' 10.905 N	109° 31' 2.718 W
2,800.00	20.00	270.11	2,689.35	1.31	-685.80	14,524,531.18	2,055,681.58	39° 59' 10.905 N	109° 31' 3.158 W
2,900.00	20.00	270.11	2,783.32	1.38	-720.00	14,524,530.68	2,055,647.39	39° 59' 10.906 N	109° 31' 3.597 W
3,000.00	20.00	270.11	2,877.29	1.44	-754.20	14,524,530.17	2,055,613.19	39° 59' 10.907 N	109° 31' 4.037 W
3,100.00	20.00	270.11	2,971.26	1.51	-788.40	14,524,529.67	2,055,578.99	39° 59' 10.907 N	109° 31' 4.476 W
3,200.00	20.00	270.11	3,065.23	1.57	-822.60	14,524,529.16	2,055,544.79	39° 59' 10.908 N	109° 31' 4.916 W
3,300.00	20.00	270.11	3,159.20	1.64	-856.81	14,524,528.66	2,055,510.59	39° 59' 10.908 N	109° 31' 5.355 W
3,400.00	20.00	270.11	3,253.17	1.70	-891.01	14,524,528.15	2,055,476.39	39° 59' 10.909 N	109° 31' 5.794 W
3,500.00	20.00	270.11	3,347.14	1.77	-925.21	14,524,527.65	2,055,442.20	39° 59' 10.910 N	109° 31' 6.234 W
3,600.00	20.00	270.11	3,441.11	1.84	-959.41	14,524,527.15	2,055,408.00	39° 59' 10.910 N	109° 31' 6.673 W
3,700.00	20.00	270.11	3,535.08	1.90	-993.61	14,524,526.64	2,055,373.80	39° 59' 10.911 N	109° 31' 7.113 W
3,800.00	20.00	270.11	3,629.05	1.97	-1,027.82	14,524,526.14	2,055,339.60	39° 59' 10.912 N	109° 31' 7.552 W
3,900.00	20.00	270.11	3,723.02	2.03	-1,062.02	14,524,525.63	2,055,305.40	39° 59' 10.912 N	109° 31' 7.992 W
4,000.00	20.00	270.11	3,816.99	2.10	-1,096.22	14,524,525.13	2,055,271.20	39° 59' 10.913 N	109° 31' 8.431 W
4,100.00	20.00	270.11	3,910.95	2.16	-1,130.42	14,524,524.62	2,055,237.01	39° 59' 10.914 N	109° 31' 8.871 W
4,200.00	20.00	270.11	4,004.92	2.23	-1,164.62	14,524,524.12	2,055,202.81	39° 59' 10.914 N	109° 31' 9.310 W
4,243.82	20.00	270.11	4,046.10	2.26	-1,179.61	14,524,523.90	2,055,187.82	39° 59' 10.914 N	109° 31' 9.503 W
Start Drop -2.00									
4,300.00	18.88	270.11	4,099.08	2.29	-1,198.31	14,524,523.62	2,055,169.13	39° 59' 10.915 N	109° 31' 9.743 W

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,400.00	16.88	270.11	4,194.25	2.35	-1,229.00	14,524,523.17	2,055,138.44	39° 59' 10.915 N	109° 31' 10.137 W
4,500.00	14.88	270.11	4,290.43	2.40	-1,256.36	14,524,522.77	2,055,111.09	39° 59' 10.916 N	109° 31' 10.489 W
4,600.00	12.88	270.11	4,387.50	2.45	-1,280.34	14,524,522.41	2,055,087.11	39° 59' 10.916 N	109° 31' 10.797 W
4,700.00	10.88	270.11	4,485.36	2.49	-1,300.92	14,524,522.11	2,055,066.53	39° 59' 10.917 N	109° 31' 11.062 W
4,800.00	8.88	270.11	4,583.87	2.52	-1,318.07	14,524,521.86	2,055,049.38	39° 59' 10.917 N	109° 31' 11.282 W
4,900.00	6.88	270.11	4,682.92	2.55	-1,331.77	14,524,521.66	2,055,035.68	39° 59' 10.917 N	109° 31' 11.458 W
4,912.16	6.63	270.11	4,695.00	2.55	-1,333.20	14,524,521.63	2,055,034.25	39° 59' 10.917 N	109° 31' 11.476 W
WASATCH									
5,000.00	4.88	270.11	4,782.39	2.57	-1,342.01	14,524,521.50	2,055,025.44	39° 59' 10.917 N	109° 31' 11.590 W
5,100.00	2.88	270.11	4,882.16	2.58	-1,348.77	14,524,521.41	2,055,018.68	39° 59' 10.918 N	109° 31' 11.676 W
5,200.00	0.88	270.11	4,982.10	2.59	-1,352.04	14,524,521.36	2,055,015.41	39° 59' 10.918 N	109° 31' 11.718 W
5,243.82	0.00	0.00	5,025.92	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
Start 4640.08 hold at 5243.82 MD									
5,300.00	0.00	0.00	5,082.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,400.00	0.00	0.00	5,182.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,500.00	0.00	0.00	5,282.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,600.00	0.00	0.00	5,382.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,700.00	0.00	0.00	5,482.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,800.00	0.00	0.00	5,582.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
5,900.00	0.00	0.00	5,682.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,000.00	0.00	0.00	5,782.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,100.00	0.00	0.00	5,882.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,200.00	0.00	0.00	5,982.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,300.00	0.00	0.00	6,082.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,400.00	0.00	0.00	6,182.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,500.00	0.00	0.00	6,282.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,600.00	0.00	0.00	6,382.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,700.00	0.00	0.00	6,482.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,800.00	0.00	0.00	6,582.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
6,900.00	0.00	0.00	6,682.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,000.00	0.00	0.00	6,782.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,100.00	0.00	0.00	6,882.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,200.00	0.00	0.00	6,982.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,300.00	0.00	0.00	7,082.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,400.00	0.00	0.00	7,182.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,500.00	0.00	0.00	7,282.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,600.00	0.00	0.00	7,382.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,633.90	0.00	0.00	7,416.00	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
MESAVERDE									
7,700.00	0.00	0.00	7,482.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,800.00	0.00	0.00	7,582.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
7,900.00	0.00	0.00	7,682.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,000.00	0.00	0.00	7,782.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,100.00	0.00	0.00	7,882.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,200.00	0.00	0.00	7,982.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,300.00	0.00	0.00	8,082.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,400.00	0.00	0.00	8,182.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,500.00	0.00	0.00	8,282.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,600.00	0.00	0.00	8,382.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,700.00	0.00	0.00	8,482.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,800.00	0.00	0.00	8,582.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
8,900.00	0.00	0.00	8,682.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well P_NBU 921-35N4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	**North Reference:**	True
Well:	P_NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-35N4BS		
Design:	PLAN #1 11-17-10 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,000.00	0.00	0.00	8,782.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,100.00	0.00	0.00	8,882.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,200.00	0.00	0.00	8,982.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,300.00	0.00	0.00	9,082.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,400.00	0.00	0.00	9,182.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,500.00	0.00	0.00	9,282.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,600.00	0.00	0.00	9,382.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,700.00	0.00	0.00	9,482.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,800.00	0.00	0.00	9,582.10	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
9,883.90	0.00	0.00	9,666.00	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W
TD at 9883.90 - PBHL_NBU 921-35N4BS									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 921-35N4B - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,666.00	2.59	-1,352.38	14,524,521.35	2,055,015.07	39° 59' 10.918 N	109° 31' 11.723 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,645.32	2,544.00	9 5/8"	9.625	12.250

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,471.53	1,441.00	GREEN RIVER			
4,912.16	4,695.00	WASATCH			
7,633.90	7,416.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	0.33	-172.77	Start 2943.82 hold at 1300.00 MD
4,243.82	4,046.10	2.26	-1,179.61	Start Drop -2.00
5,243.82	5,025.92	2.59	-1,352.38	Start 4640.08 hold at 5243.82 MD
9,883.90	9,666.00	2.59	-1,352.38	TD at 9883.90

'APIWellNo:43047513950000'

NBU 921-35N4BS
Surface: 388’ FSL 1,770’ FEL (SW/4SE/4) Lot 2
BHL: 410’ FSL 2,164’ FWL (SE/4SW/4) Lot 3
Mineral Lease: UO 1194 ST

NBU 921-35N4CS
Surface: 379’ FSL 1,773’ FEL (SW/4SE/4) Lot 2
BHL: 51’ FSL 2,153’ FWL (SE/4SW/4) Lot 3
Mineral Lease: UO 1194 ST

NBU 921-35O1BS
Surface: 407’ FSL 1,763’ FEL (SW/4SE/4) Lot 2
BHL: 1,059’ FSL 1,833’ FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O1CS
Surface: 398’ FSL 1,766’ FEL (SW/4SE/4) Lot 2
BHL: 674’ FSL 1,828’ FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O4BS
Surface: 370’ FSL 1,777’ FEL (SW/4SE/4) Lot 2
BHL: 336’ FSL 1,833’ FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O4CS
Surface: 360’ FSL 1,780’ FEL (SW/4SE/4) Lot 2
BHL: 26’ FSL 1,826’ FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

Pad: NBU 921-35O
Section 35 T9S R21E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and

utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately ±385' (0.07 miles) of road re-route is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 133. This well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.
Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ±1,570' and the individual segments are broken up as follows:

- ±60' (0.01 miles) –New 8" buried gas pipeline from the meter to the edge of the pad.
- ±210' (0.04 miles) –New 8" buried gas pipeline from the edge of pad to the NBU 921-35M pad intersection.
- ±540' (0.1 miles) –New 12" buried gas pipeline from the NBU 921-35M pad intersection to the NBU 921-35P pad intersection.
- ±760' (0.1 miles) –Re-route 4" buried gas pipeline around the well pad.

The total liquid gathering pipeline distance from the separator to the tie in point is ±570' and the individual segments are broken up as follows:

±60' (0.01 miles) –New 6" buried liquid pipeline from the meter to the edge of the pad.
±210' (0.04 miles) –New 6" buried liquid pipeline from the edge of pad to the NBU 921-35P pad intersection.
±300' (0.06 miles) –New 6" buried liquid pipeline from the NBU 921-35P pad intersection to the NBU 921-35M pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.
Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.
No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner

will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs “Reporting Oil and Gas Undesirable Events” rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-

vegetation. The site specific seed mix will be provided by SITLA.

J. **Surface/Mineral Ownership:**
SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. **Other Information:**

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot
Danielle Piernot

November 19, 2010
Date

'APIWellNo:43047513950000'

Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779

October 27, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-35N4BS
T9S-R21E
Section 35: SWSE (Surf), SESW (Bottom)
Surface: 388' FSL, 1770' FEL
Bottom Hole: 410' FSL, 2164' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35N4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

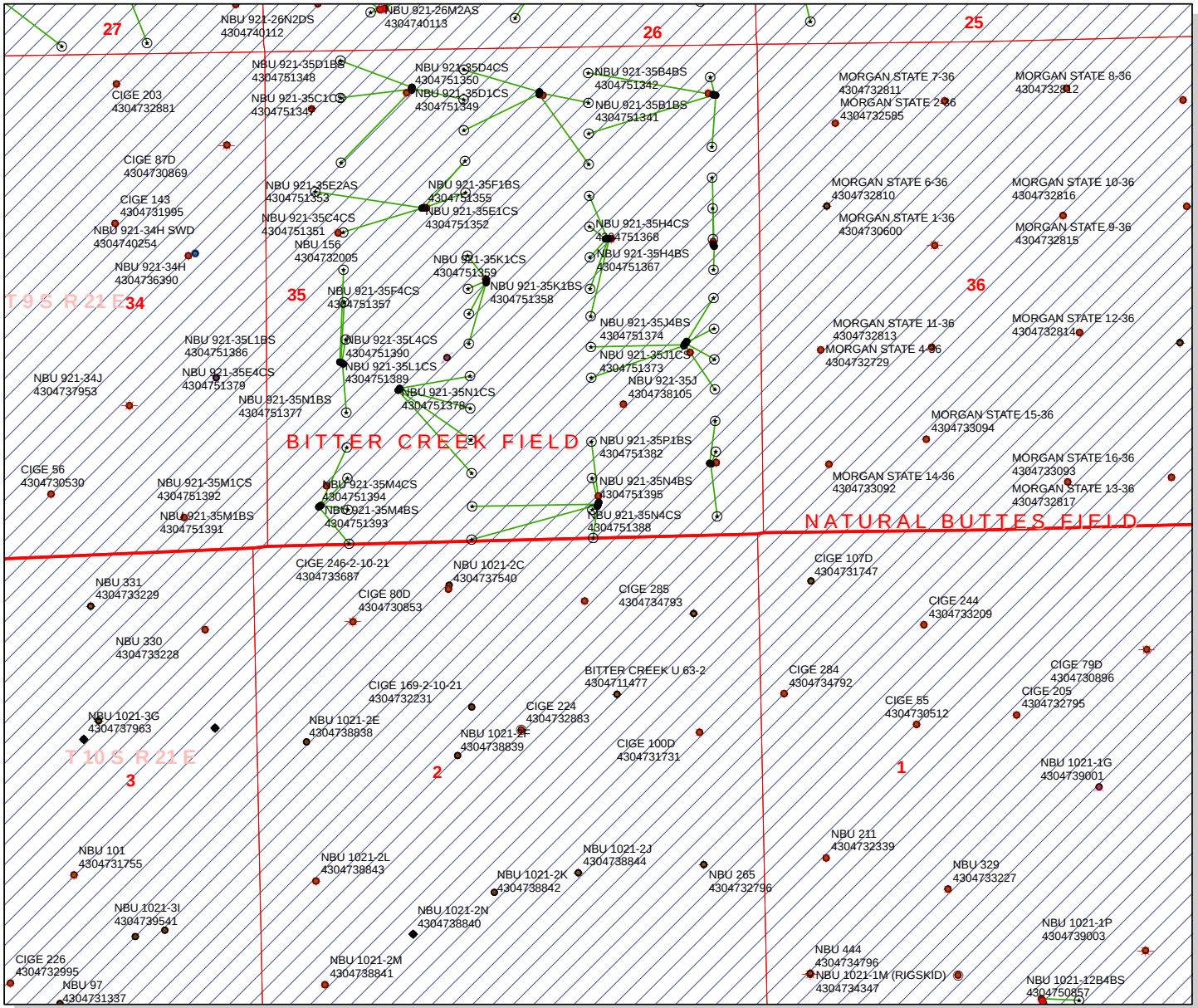
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney

Joe Matney
Sr. Staff Landman

'APIWellNo:43047513950000'



API Number: 4304751395

Well Name: NBU 921-35N4BS

Township 09.0 S Range 21.0 E Section 35

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

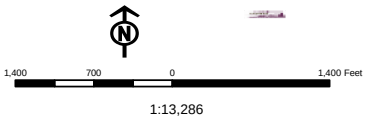
Units

STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
- Sections
- Township
- Bottom Hole Location - AGRC

Wells Query
- <all other values>

Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well



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'APIWellNo:43047513950000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 921-35F2 Pad		
43-047-51355	NBU 921-35F1BS	Sec 35 T09S R21E 1684 FNL 1709 FWL BHL Sec 35 T09S R21E 1531 FNL 2146 FWL
NBU 921-35F4 PAD		
43-047-51356	NBU 921-35F4BS	Sec 35 T09S R21E 2473 FNL 2358 FWL BHL Sec 35 T09S R21E 2210 FNL 2158 FWL
43-047-51357	NBU 921-35F4CS	Sec 35 T09S R21E 2483 FNL 2358 FWL BHL Sec 35 T09S R21E 2567 FNL 2159 FWL
43-047-51358	NBU 921-35K1BS	Sec 35 T09S R21E 2493 FNL 2358 FWL BHL Sec 35 T09S R21E 2484 FSL 2161 FWL
43-047-51359	NBU 921-35K1CS	Sec 35 T09S R21E 2503 FNL 2357 FWL BHL Sec 35 T09S R21E 2163 FSL 2155 FWL
NBU 921-35G Pad		
43-047-51360	NBU 921-35G1BS	Sec 35 T09S R21E 2053 FNL 1633 FEL BHL Sec 35 T09S R21E 1583 FNL 1819 FEL
43-047-51361	NBU 921-35G1CS	Sec 35 T09S R21E 2053 FNL 1653 FEL BHL Sec 35 T09S R21E 1916 FNL 1820 FEL
43-047-51362	NBU 921-35G4BS	Sec 35 T09S R21E 2053 FNL 1643 FEL BHL Sec 35 T09S R21E 2250 FNL 1822 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51363	NBU 921-35G4CS	Sec 35 T09S R21E 2053 FNL 1623 FEL
		BHL Sec 35 T09S R21E 2583 FNL 1823 FEL
43-047-51364	NBU 921-35J1BS	Sec 35 T09S R21E 2053 FNL 1613 FEL
		BHL Sec 35 T09S R21E 2419 FSL 1824 FEL
NBU 921-35H PAD		
43-047-51365	NBU 921-35H1BS	Sec 35 T09S R21E 2143 FNL 0486 FEL
		BHL Sec 35 T09S R21E 1411 FNL 0494 FEL
43-047-51366	NBU 921-35H1CS	Sec 35 T09S R21E 2133 FNL 0490 FEL
		BHL Sec 35 T09S R21E 1743 FNL 0495 FEL
43-047-51367	NBU 921-35H4BS	Sec 35 T09S R21E 2124 FNL 0493 FEL
		BHL Sec 35 T09S R21E 2075 FNL 0495 FEL
43-047-51368	NBU 921-35H4CS	Sec 35 T09S R21E 2152 FNL 0483 FEL
		BHL Sec 35 T09S R21E 2407 FNL 0495 FEL
NBU 921-35I PAD		
43-047-51369	NBU 921-35I1BS	Sec 35 T09S R21E 2106 FSL 0794 FEL
		BHL Sec 35 T09S R21E 2572 FSL 0496 FEL
43-047-51370	NBU 921-35I1CS	Sec 35 T09S R21E 2098 FSL 0800 FEL
		BHL Sec 35 T09S R21E 2240 FSL 0496 FEL
43-047-51371	NBU 921-35I4BS	Sec 35 T09S R21E 2090 FSL 0806 FEL
		BHL Sec 35 T09S R21E 1908 FSL 0496 FEL
43-047-51372	NBU 921-35I4CS	Sec 35 T09S R21E 2082 FSL 0811 FEL
		BHL Sec 35 T09S R21E 1577 FSL 0497 FEL
43-047-51373	NBU 921-35J1CS	Sec 35 T09S R21E 2074 FSL 0817 FEL
		BHL Sec 35 T09S R21E 2086 FSL 1825 FEL
43-047-51374	NBU 921-35J4BS	Sec 35 T09S R21E 2066 FSL 0823 FEL
		BHL Sec 35 T09S R21E 1752 FSL 1826 FEL
NBU 921-35K PAD		
43-047-51375	NBU 921-35K4BS	Sec 35 T09S R21E 1710 FSL 1409 FWL
		BHL Sec 35 T09S R21E 1814 FSL 2165 FWL
43-047-51376	NBU 921-35K4CS	Sec 35 T09S R21E 1702 FSL 1403 FWL
		BHL Sec 35 T09S R21E 1469 FSL 2163 FWL
43-047-51377	NBU 921-35N1BS	Sec 35 T09S R21E 1694 FSL 1397 FWL
		BHL Sec 35 T09S R21E 1124 FSL 2161 FWL
43-047-51378	NBU 921-35N1CS	Sec 35 T09S R21E 1686 FSL 1392 FWL
		BHL Sec 35 T09S R21E 0771 FSL 2162 FWL

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API #	WELL NAME	LOCATION
NBU 921-35L PAD		
43-047-51379	NBU 921-35E4CS	Sec 35 T09S R21E 2016 FSL 0768 FWL
		BHL Sec 35 T09S R21E 2343 FNL 0823 FWL
43-047-51386	NBU 921-35L1BS	Sec 35 T09S R21E 2013 FSL 0778 FWL
		BHL Sec 35 T09S R21E 2658 FSL 0826 FWL
43-047-51389	NBU 921-35L1CS	Sec 35 T09S R21E 2009 FSL 0787 FWL
		BHL Sec 35 T09S R21E 2255 FSL 0835 FWL
43-047-51390	NBU 921-35L4CS	Sec 35 T09S R21E 2005 FSL 0796 FWL
		BHL Sec 35 T09S R21E 1470 FSL 0832 FWL
NBU 921-35P PAD		
43-047-51380	NBU 921-35P4CS	Sec 35 T09S R21E 0781 FSL 0557 FEL
		BHL Sec 35 T09S R21E 0208 FSL 0489 FEL
43-047-51381	NBU 921-35P1CS	Sec 35 T09S R21E 0778 FSL 0547 FEL
		BHL Sec 35 T09S R21E 0913 FSL 0497 FEL
43-047-51382	NBU 921-35P1BS	Sec 35 T09S R21E 0785 FSL 0566 FEL
		BHL Sec 35 T09S R21E 1245 FSL 0497 FEL
NBU 921-35O PAD		
43-047-51383	NBU 921-35O4CS	Sec 35 T09S R21E 0360 FSL 1780 FEL
		BHL Sec 35 T09S R21E 0026 FSL 1826 FEL
43-047-51384	NBU 921-35O4BS	Sec 35 T09S R21E 0370 FSL 1777 FEL
		BHL Sec 35 T09S R21E 0336 FSL 1833 FEL
43-047-51385	NBU 921-35O1CS	Sec 35 T09S R21E 0398 FSL 1766 FEL
		BHL Sec 35 T09S R21E 0674 FSL 1828 FEL
43-047-51387	NBU 921-35O1BS	Sec 35 T09S R21E 0407 FSL 1763 FEL
		BHL Sec 35 T09S R21E 1059 FSL 1833 FEL
43-047-51388	NBU 921-35N4CS	Sec 35 T09S R21E 0379 FSL 1773 FEL
		BHL Sec 35 T09S R21E 0051 FSL 2153 FWL
43-047-51395	NBU 921-35N4BS	Sec 35 T09S R21E 0388 FSL 1770 FEL
		BHL Sec 35 T09S R21E 0410 FSL 2164 FWL
NBU 921-35M PAD		
43-047-51391	NBU 921-35M1BS	Sec 35 T09S R21E 0469 FSL 0526 FWL
		BHL Sec 35 T09S R21E 1096 FSL 0830 FWL
43-047-51392	NBU 921-35M1CS	Sec 35 T09S R21E 0474 FSL 0534 FWL
		BHL Sec 35 T09S R21E 0760 FSL 0830 FWL

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API #	WELL NAME	LOCATION
43-047-51393	NBU 921-35M4BS	Sec 35 T09S R21E 0478 FSL 0543 FWL
		BHL Sec 35 T09S R21E 0423 FSL 0831 FWL
43-047-51394	NBU 921-35M4CS	Sec 35 T09S R21E 0464 FSL 0517 FWL
		BHL Sec 35 T09S R21E 0055 FSL 0834 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.12.01 10:03:00 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-1-10

'APIWellNo:43047513950000'

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS	API #4304751339	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35A4CS	API #4304751340	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35B1BS	API #4304751341	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35B4BS	API #4304751342	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35B1CS	API #4304751343	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	
Kerr-McGee's NBU 921-35B4CS	API #4304751344	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	
Kerr-McGee's NBU 921-35C1BS	API #4304751345	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	
Kerr-McGee's NBU 921-35C4BS	API #4304751346	IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	
Kerr-McGee's NBU 921-35C1CS	API #4304751347	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35D1BS	API #4304751348	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35D1CS	API #4304751349	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35D4CS	API #4304751350	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35C4CS	API #4304751351	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35E1CS	API #4304751352	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35E2AS	API #4304751353	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35F1BS	API #4304751355	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35F4BS	API #4304751356	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35F4CS	API #4304751357	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)	
Kerr-McGee's NBU 921-35K1BS	API #4304751358	IPC 10-97 Full Paleo Monitoring (U-07-	

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MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1CS API #4304751359 IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35G1BS API #4304751360 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G1CS API #4304751361 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G4BS API #4304751362 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G4CS API #4304751363 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35J1S API #4304751364 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35H1BS API #4304751365 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H1CS API #4304751366 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H4BS API #4304751367 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H4CS API #4304751368 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I1BS API #4304751369 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I1CS API #4304751370 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I4BS API #4304751371 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I4CS API #4304751372 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35J1CS API #4304751373 IPC 10-98 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35J4BS API #4304751374 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K4BS API #4304751375 IPC 10-99 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K4CS API #4304751376 IPC 10-99 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N1BS API #4304751377 IPC 10-99 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N1CS API #4304751378 IPC 10-99 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E4CS API #4304751379 IPC 10-99 Spot Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P4CS API #4304751380 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P1CS API #4304751381 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P1BS API #4304751382 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35O4CS API #4304751383 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35O4BS API #4304751384 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35O1CS API #4304751385 IPC 10-100 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35L1BS API #4304751386 IPC 10-99 Spot Paleo Monitoring

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(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35O1BS API #4304751387 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35N4CS API #4304751388 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35L1CS API #4304751389 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35L4CS API #4304751390 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M1BS API #4304751391 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M1CS API #4304751392 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M4BS API #4304751393 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35M4CS API #4304751394 IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N4BS API #4304751395 IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35N4BS 43047513950000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35N4BS 4304751395			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2445	9666		
Previous Shoe Setting Depth (TVD)	40	2445		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5896	11.7		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1059		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	766	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	521	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	530	NO	Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6032		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4872	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3905	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4443	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2445	psi *Assumes 1psi/ft frac gradient	

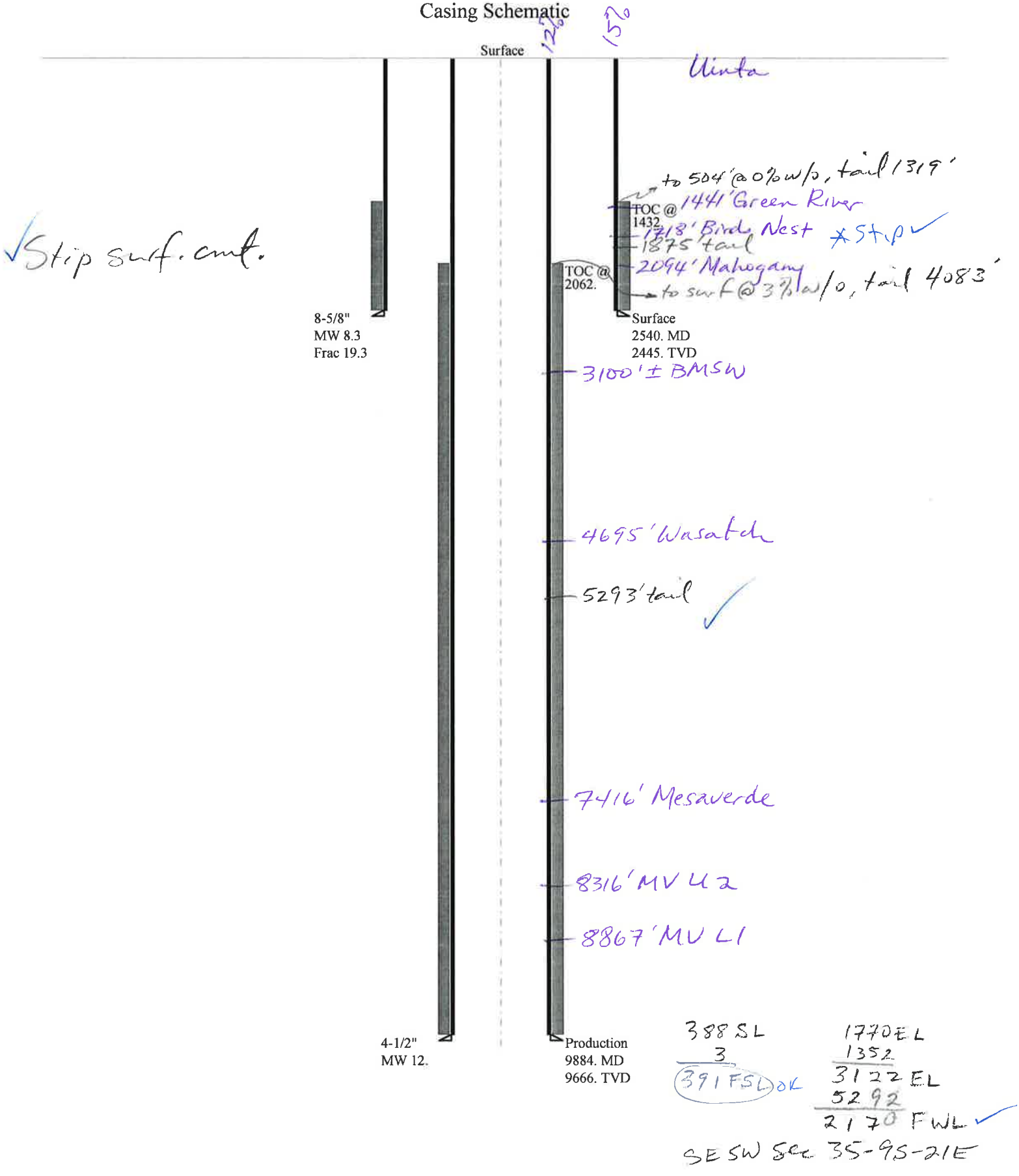
Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

'APIWellNo:43047513950000'

43047513950000 NBU 921-35N4BS

Casing Schematic



'APIWellNo:43047513950000'

Well name:	**43047513950000 NBU 921-35N4BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Surface
Project ID:	43-047-51395
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,235 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,529 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,220 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 108 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,432 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 597 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:
Next setting depth: 9,666 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,026 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,540 ft
Injection pressure: 2,540 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2540	8.625	28.00	I-55	LT&C	2445	2540	7.892	100584

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1058	1880	1.777	2529	3390	1.34	68.5	348	5.08 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 28,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2445 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43047513950000'

Well name:	**43047513950000 NBU 921-35N4BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production
Project ID:	43-047-51395
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight:	12.000 ppg
Internal fluid density:	1.000 ppg

Burst

Max anticipated surface pressure:	3,899 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,026 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 8,150 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	209 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	2,062 ft

Directional Info - Build & Drop

Kick-off point	300 ft
Departure at shoe:	1352 ft
Maximum dogleg:	2 °/100ft
Inclination at shoe:	0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	9884	4.5	11.60	I-80	LT&C	9666	9884	3.875	130469

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5523	6360	1.151	6026	7780	1.29	112.1	212	1.89 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 28,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9666 ft, a mud weight of 12 ppg An internal gradient of .052 psi/ft was used for collapse from TD to
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43047513950000'

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 921-35N4BS				
API Number	43047513950000	**APD No**	3220	**Field/Unit**	NATURAL BUTTES
Location: 1/4,1/4	SWSE **Sec** 35 **Tw** 9.0S **Rng** 21.0E 388 FSL 1770 FEL				
GPS Coord (UTM)	626781 4427089	**Surface Owner**			

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35O pad will be created by significantly enlarging the existing pad of the CIGE 133 gas well. It will be enlarged in all directions except to the north. Six gas wells, to be directionally drilled, will be added. They are the NBU 921-35O1BS, NBU 921-35O1CS, NBU 921-35N4BS, NBU 921-35N4CS, NBU 921-35O4BS and NBU 921-35O4CS. . The site is in moderately rolling terrain which slopes to the west. A drainage intersects the location on the south. It will be blocked with excess spoils until after drilling. After the pad is put into production its length will be reduced on this end and the drainage re-routed thru the area to the west. The surface of the pad may be sandy and need hardening. A major tributary of Sand Wash is about 1/2 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use
Wildlfe Habitat
Existing Well Pad
Grazing

New Road Miles	**Well Pad**	**Src Const Material**	**Surface Formation**
0	**Width** 352 **Length** 475	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a desert shrub type, which includes rabbit brush, Indian ricegrass, big sage, Russian thistle, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are a moderately deep sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? Y

A drainage intersects the location on the south. It will be blocked with excess spoils until after drilling. After the pad is put into production its length will be reduced on this end and the drainage re-routed thru the area to the west.

Berm Required? N

Erosion Sedimentation Control Required? Y

A drainage intersects the location on the south. It will be blocked with excess spoils until after drilling. After the pad is put into production its length will be reduced on this end and the drainage re-routed thru the area to the west.

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120’ x 260’ x 12’ deep located in a cut on the snortheast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett	11/30/2010
Evaluator	**Date / Time**

'APIWellNo:43047513950000'

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3220	43047513950000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	NBU 921-35N4BS		**Unit**	NATURAL BUTTES	
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	SWSE 35 9S 21E S 388 FSL 1770 FEL		GPS Coord (UTM)	626784E 4427079N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,540’ of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to cover the base of the moderately saline ground water in order to isolate fresher waters uphole.

Brad Hill	12/15/2010
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

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Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

'APIWellNo:43047513950000'

Floyd Bartlett	11/30/2010
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/23/2010 **API NO. ASSIGNED:** 43047513950000

WELL NAME: NBU 921-35N4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSE 35 090S 210E **Permit Tech Review:** ☑

SURFACE: 0388 FSL 1770 FEL **Engineering Review:** ☑

BOTTOM: 0410 FSL 2164 FWL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 39.98627 **LONGITUDE:** -109.51508

UTM SURF EASTINGS: 626784.00 **NORTHINGS:** 4427079.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 01194 ST **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 921-35N4BS
API Well Number: 43047513950000
Lease Number: UO 01194 ST
Surface Owner: STATE
Approval Date: 12/30/2010

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

API Well No: 43047513950000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 2/1/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON FEBUARY 01, 2011 AT 12:45 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
02/03/2011

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 2/2/2011

RECEIVED February 02, 2011

API Well No: 43047513950000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

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5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/7/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
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	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
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	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pit Refurb (ACTS)

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. There will be 2-500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbed pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections.

Approved by the Utah Division of Oil, Gas and Mining
Date: 02/10/2011
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 2/3/2011

RECEIVED February 03, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513950000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-35N4BS
Qtr/Qtr SWSE Section 35 Township 9S Range 21E
Lease Serial Number UO 01194 ST
API Number 4304751395

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 01/31/2011 13:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

RECEIVED
JAN 2 8 2011
DIV. OF OIL, GAS & MINING

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 03/03/2011 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

API Well No: 43047513950000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

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8. WELL NAME and NUMBER: NBU 921-35N4BS

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FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/20/2011	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON FEBRUARY 18, 2011. DRILLED 11" SURFACE HOLE TO 2560'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 140 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 200 SX CLASS G PREM @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 155 BBLS WATER. LOST CIRC 111 BBLS INTO DISPLACEMENT. LIFT PRESSURE WAS 400 PSI, BUMP PLUG & HOLD 900 PSI FOR 5 MIN. FLOAT HELD. NO CEMENT TO SURFACE. TOP OUT THRU 1" PIPE W/ 125 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. WOC. TOP OUT #2 W/ 125 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. NO CEMENT TO SURFACE. WORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 2/23/2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 3/24/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2560' TO 9910' ON MARCH 23, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASE PIONEER RIG 54 ON MARCH 24, 2011 @ 21:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 3/25/2011

RECEIVED Mar. 25, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 6/22/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 06/22/2011 AT 1:45 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/23/2011

RECEIVED Jun. 23, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/28/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Well Shut Off

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator request authorization to workover the subject well location. The workover operations will consist of water shut off by perforation cement squeeze. Stage 8 perfs from 6707-6870 will be squeezed off with cement. Please see attached procedure.

Approved by the Utah Division of Oil, Gas and Mining

Date: 08/02/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 7/28/2011

RECEIVED Jul. 28, 2011

Name: **NBU 921-35N4BS**
Location: **SESW SEC35 T9S R21E**
Uintah County, UT

PERF ABANDONMENT/ WATER SHUT OFF

ELEVATIONS: 5100' GL 5119' KB *Frac Registry TVD: 9691'*

TOTAL DEPTH: 9910' **PBTD:** 9851'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2547'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ Surface-9852' and 9895-9896'
4 1/2", 11.6#, P-110 BT&C @ 9852-9895'
Marker Joint **4922-4942' and 7593-7613'**

EOT @ 9078'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 ½" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1492' Green River Top
1787' Bird's Nest Top
2385' Mahogany Top
4915' Wasatch Top — 7641' Wasatch Bottom
7641' Mesaverde Top — 9910' Mesaverde Bottom (TD)

T.O.C. @ 130' (Halliburton CBL - 4/21/2011)

Contacts:

VILLA, JOEL	828-8923	OPERATOR
RASMUSSEN, JERRY	828-8239	FOREMAN
JENSEN, STEVE	828-6113	MECH LEAD
PORTILLO, JORDAN	781-9785/828-6221	ENGINEER

Relevant History:

- June 2011 – Completed well IP'd At 1.2 mmcf/day, Stage 7 Perf only (5869-5884')
- July 2011 - Well test showed well making 465mcf/day and 300 bbls/day on a 18 choke
  - Production log showed high inflow of water from Stage 4-6

Symptoms:

- High LGR. Water shut-off needed to sustain production.

Procedure Outline:

- MIRU. N/D WH. N/U BOP. Unland tubing and TOOH.
- With Wireline, RIH w/ gauge ring and junk basket to ~8690'. RIH W/ 4-1/2" CBP set same @ ~8660'. POOH. RIH w/ 4-1/2" CICR on tubing and set same @ ~8400'. Sting into CICR and establish injection rate.
- R/U cement company and pump recommended cement job into perforations from 8444'- 8644', based off injection rate and pressure. PUH w/ stinger and cap with CICR with cement. Reverse circulate clean. TOOH.
- RIH w/ 4-1/2" CICR on tubing and set same @ ~8200'. Sting into CICR and establish injection rate.
- R/U cement company and pump recommended cement job into perforations from 8263'- 8346', based off injection rate and pressure. PUH w/ stinger and cap with CICR with cement. Reverse circulate clean. TOOH.
- RIH w/ 4-1/2" CICR on tubing and set same @ ~7940'. Sting into CICR and establish injection rate.
- R/U cement company and establish injection rate into perfs 7978'-8110'. Pump recommended cement job into perforations from 7978'-8110', based off injection rate and pressure. PUH w/ stinger and cap with CICR with cement. Reverse circulate clean. TOOH to 5900'.
- Pump recommended balanced plug cement job into perforations from 5869'-5884', based off injection rate and pressure. PUH above calculated cement top with no leak and reverse circulate tubing until clean. Apply appropriate pressure and WOC.
- POOH. RIH w/ 3-7/8" w/mill. D-O balance plugs, CBP's and CICR's, replace mill when necessary. Test each interval for 10 min and 1,000 psi, contact engineer if squeezes don't test.
- TOOH remove mill. Land tubing at +/- 9130'.
- N/D BOP. N/U WH. RDMO. RTP

RECEIVED Jul. 28, 2011

Completion Information:

Name NBU 921-35N4BS
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	MESAVERDE	9378	9379	4	4		9375.5	to	9384.5
	MESAVERDE	9480	9482	4	8		9462	to	9489
	MESAVERDE	9655	9658	3	9		9649	to	9660
	# of Perfs/stage				21		CBP DEPTH	9,320	
2	MESAVERDE	9112	9113	3	3		9107.5	to	9144.5
	MESAVERDE	9137	9138	3	3		9107.5	to	9144.5
	MESAVERDE	9180	9182	3	6		9158.5	to	9187
	MESAVERDE	9216	9218	3	6		9212	to	9231
	MESAVERDE	9278	9280	3	6		9272	to	9290.5
	# of Perfs/stage				24		CBP DEPTH	9,074	
3	MESAVERDE	8814	8815	3	3		8792.5	to	8853.5
	MESAVERDE	8840	8841	3	3		8792.5	to	8853.5
	MESAVERDE	8944	8946	3	6		8931.5	to	8958
	MESAVERDE	8973	8975	3	6		8961.5	to	8980.5
	MESAVERDE	9042	9044	3	6		8986.5	to	9051.5
	# of Perfs/stage				24		CBP DEPTH	8,694	
4	MESAVERDE	8444	8446	3	6		8437.5	to	8448
	MESAVERDE	8569	8571	4	8		8542	to	8575
	MESAVERDE	8642	8644	4	8		8620	to	8645.5
	# of Perfs/stage				22		CBP DEPTH	8,386	
5	MESAVERDE	8263	8265	4	8		8258	to	8271.5
	MESAVERDE	8280	8282	4	8		8273	to	8284
	MESAVERDE	8344	8346	4	8		8332	to	8356.5
	# of Perfs/stage				24		CBP DEPTH	8,160	
6	MESAVERDE	7978	7980	4	8		7972.5	to	7985
	MESAVERDE	8026	8028	4	8		8011	to	8031.5
	MESAVERDE	8108	8110	4	8		8106.5	to	8115
	# of Perfs/stage				24		CBP DEPTH	5,934	
7	WASATCH	5869	5872	4	12		5863	to	5873.5
	WASATCH	5880	5884	3	12		5875	to	5894
	# of Perfs/stage				24		CBP DEPTH	5,819	
	Totals				163				

Production Log Results:

RECEIVED Jul. 28, 2011

Fluid Entry Results

Company:	Anadarko
Well:	NBU 921-35N4BS
Date:	6-Jul-11
Field:	
Gas:	462 mcf/D
Water:	484 B/D

Perforations Depth (ft)	Water		Gas	
	Surface B/D	%	Surface mcf/d	%
5869-5884	BALANCE PLUG			
7940	SET CICR			
7978-7980	40	8.28%	Trace	---
8026-8028	29	6.00%	Trace	---
8108-8110	Trace	---	---	0.00%
8200	SET CICR			
8263-8265	31	6.42%	Trace	---
8280-8282	Likely	---	Trace	---
8344-8346	153	31.68%	Trace	---
8400	SET CICR			
8444-8446	60	12.42%	Trace	---
8569-8571	18	3.73%	Trace	---
8642-8644	Trace	---	42	7.84%
8660	SET CBP			

RECEIVED Jul. 28, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UTU63047A
8. WELL NAME and NUMBER: NBU 921-35N4BS
9. API NUMBER: 4304751395
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6100
4. LOCATION OF WELL (FOOTAGES) BHL reviewed by JP
AT SURFACE: SWSE 388 FSL 1770 FEL S35, T9S, R21E
AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 461 FSL 2183 FWL S35, T9S, R21E
AT TOTAL DEPTH: SESW 413 FSL 2235 FWL S35, T9S, R21E
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 35 9S 21E S
12. COUNTY: UINTAH
13. STATE: UTAH
14. DATE SPUDDED: 2/1/2011
15. DATE T.D. REACHED: 3/23/2011
16. DATE COMPLETED: 6/22/2011 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 5100 GL
18. TOTAL DEPTH: MD 9,910 TVD 9,691
19. PLUG BACK T.D.: MD 9,852 TVD 9,633
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-CHI TRIPLE COMBO-RMTE-GRC-RCBL-BHP-HDIL/ZDL/CNGR
23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,547		650		0	
7 7/8"	4 1/2" I-80	11.6#		9,896		1,874		130	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,079							

26. PRODUCING INTERVALS / **27. PERFORATION RECORD**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,869	5,884			5,869 5,884	0.36	24	Open ☑ Squeezed ☐
(B) MESAVERDE	7,978	9,658			7,978 9,658	0.36	139	Open ☑ Squeezed ☐
(C)								Open ☐ Squeezed ☐
(D)								Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

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JUL 26 2011
DIV. OF OIL, GAS & MINING

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7978 - 9658	PUMP 4,954 BBLS SLICK H2O & 89,556 LBS SAND
	DID NOT FRAC STAGE 7 (WASATCH)

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
6/22/2011	6/24/2011	24		0	1,191	721	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	995	1,947					0	1,191	721	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,492				
BIRD'S NEST	1,787				
MAHOGANY	2,385				
WASATCH	4,915	7,641			
MESAVERDE	7,641	9,910	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 7/20/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 3/18/2011	End Date: 3/24/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/18/2011	18:00 - 19:00	1.00	MIRU	01	A	P		MOVE RIG IN OFF NBU 921-35O1CS
	19:00 - 19:30	0.50	MIRU	01	B	P		RIG UP
	19:30 - 20:00	0.50	DRLSUR	06	A	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8009 . 7/8 LOBE .17 RPG. M/U Q506 SN 7133301 1ST RUN, W/ 6-18'S. INSTALL RUBBER
	20:00 - 21:00	1.00	DRLSUR	02	C	P		SPUD SURFACE 02/18/2011 @ 20:00 HRS. DRILL 11" SURFACE HOLE F/40'-210' (170' @ 170'/HR) PSI ON/ OFF 700/450, UP/ DOWN/ ROT 25/20/22. 532 GPM, 45 RPM ON TOP DRIVE,90 RPM ON MM 15-18K WOB
	21:00 - 23:00	2.00	DRLSUR	06	A	P		TOH,P/U DIR TOOLS & SCRIBE, TIH T/210'
	23:00 - 0:00	1.00	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-400' (190' @ 190'/HR) PSI ON/ OFF 785/590, UP/ DOWN/ ROT 48/39/42 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
2/19/2011	0:00 - 5:30	5.50	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 400'-1000' (600' @ 109'/HR) PSI ON/ OFF 1050/740, UP/ DOWN/ ROT 54/45/50 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
	5:30 - 15:30	10.00	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/1000'-1870' (870' @ 87'/HR) PSI ON/ OFF 1290/1070, UP/ DOWN/ ROT 70/52/61 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT
	15:30 - 23:30	8.00	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/1870'-2560' (690' @ 86'/HR) PSI ON/ OFF 1450/1250, UP/ DOWN/ ROT 82/65/70 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRC RESERVE PIT(TD SURF. HOLE)
	23:30 - 0:00	0.50	DRLSUR	05	C	P		CIRC & COND HOLE F/LAY DOWN,LOGGING & 8 5/8" SURF. CSG
2/20/2011	0:00 - 1:30	1.50	DRLPRO	05	C	P		CONT T/ CIRC & COND HOLE F/L/D,LOGGING & 8 5/8" SURF. CSG
	1:30 - 5:00	3.50	DRLPRO	06	D	P		LAY DOWN DRILL STRING,11" BHA & DIR TOOLS
	5:00 - 7:30	2.50	DRLPRO	11	D	P		HOLD SAFTEY MEETING R/U PIONEER LOGGING EQUIP. & RUN CALIPER LOG F/2485' T/40 USED 2 ARM CALIPER'(LOGGERS TD 2519',DRILLERS TD 2560'),RIG DOWN LOGGERS
	7:30 - 8:30	1.00	CSG	12	A	P		RIG UP TO RUN 8 5/8" 28# SURF. CSG
	8:30 - 12:00	3.50	CSG	12	C	P		HOLD SAFTEY MEETING,RUN FLOAT SHOE, SHOE JNT,.BAFFEL& 56 JNTS 8 5/8" 28# LT&C SURF. CSG W/THE SHOE SET @2532' & THE BAFFEL SET @ 2484',FILL PIPE & WASH CSG F/2500' T/2532' (RAN 20 CENTRALIZERS)
	12:00 - 12:30	0.50	CSG	12	B	P		RUN 100' 1" PIPE DOWN ANNULUS,R/U PRO PETRO CEMENT EQUIP

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 3/18/2011	End Date: 3/24/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 14:00	1.50	CSG	12	E	P		HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 140 BBLS OF 8.3# H20 AHEAD. FUL CIRC. PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. FULL CIRC. PUMP 200 SX(136.1 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE). DROP PLUG ON FLY AND DISPLACE W/155 BBLS OF 8.3# H20.LOST CIRC 111 BLLS INTO DISPLACEMENT LIFT PRESSURE WAS 400 PSI, BUMP PLUG AND HOLD 900 PSI FOR 5 MIN. FLOAT HELD,NO CEMENT TO SURF.
	14:00 - 16:00	2.00	CSG	13	A	P		WAIT ON CEMENT
	16:00 - 16:30	0.50	CSG	12	F	P		TOP OUT THRU 1" PIPE W/125 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE,NO CEMENT TO SURF.
	16:30 - 18:00	1.50	CSG	13	A	P		WAIT ON CEMENT
	18:00 - 18:30	0.50	CSG	12	F	P		TOP W/125 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE,NO CEMENT TO SURF.RELEASE RIG @ 18:30
	18:30 - 18:30	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28 SPUD DATE/TIME: 2/18/2011 20:00 SURFACE HOLE: Surface From depth: 40' Surface To depth: 2,560 Total SURFACE hours: 25.50 Surface Casing size: 8 5/8 # of casing joints ran: 57 Casing set MD: 2,532.0 # sx of cement: 200/200/250 Cement blend (ppg:) 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: Describe cement issues: NONE Describe hole issues: NONE
3/18/2011	12:00 - 13:00	1.00	DRLPRO	01	C	P		SKID RIG TO NBU-921-35N4BS
	13:00 - 14:30	1.50	DRLPRO	14	A	P		N/U BOPE
	14:30 - 17:30	3.00	DRLPRO	15	A	P		TEST BOPE 5000 CSG 1500
	17:30 - 18:00	0.50	DRLPRO	14	B	P		RUN W/BUSHING
	18:00 - 18:30	0.50	DRLPRO	06	A	P		RIH TO 2418'
	18:30 - 19:00	0.50	DRLPRO	09	A	P		SLIP AND CUT DRLG LINE
	19:00 - 20:30	1.50	DRLPRO	02	F	P		DRLG CMT F/2418' FC @2501' SHOE @ 2543' FORMATION TO 2595' 10' FLAIR
	20:30 - 21:30	1.00	DRLPRO	16	B	P		PUMP 10BBL 12.4 PPG 70 VISC MUD SPOT ON BOTTOM POOH 200' CLOSE BAG PUMP WITH TESTER 5 BBL NO PRESSURE PUMP WITH RIG PUMP 5 BBL 618 PSI WELL HELD 54 PSI FOR EMW OF 12.82 TIH 200'

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 3/18/2011	End Date: 3/24/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:30 - 0:00	2.50	DRLPRO	02	D	P		DRLG F/ 2595' TO 2835', 260' @ 104' PH WOB 22, MW 8.4 VIS 27, RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 100-95-98, PSI ON/OFF 1500-1200, TOR 8-6 K ROT=1.84 HRS 204' @ 110.86 PH SLIDE=.66 HRS 56' @ 100 PH
3/19/2011	0:00 - 17:00	17.00	DRLPRO	02	D	P		DRLG F/ 2835' TO 4822', 1987' @ 116' PH WOB 22, MW 8.4 VIS 27, RPM 60, MM 134, SPM 165, GPM 595, PU/SO/ROT 135-105-120 PSI ON/OFF 1800-1400, TOR 8-6 K ROT=8.48 HRS 1439' @ 169.96 PH SLIDE= 8.52 HRS 548' @ 100 PH
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRLG F/ 4822' TO 5675', 853' @ 131' PH WOB 22, MW 8.4 VIS 27, RPM 60, MM 134, SPM 165, GPM 595, PU/SO/ROT 142-115-125 PSI ON/OFF 1800-1400, TOR 8-6 K ROT=5.08 HRS 788' @ 155.11 PH SLIDE= 1.42 HRS 65' @ 45.77 PH
3/20/2011	0:00 - 16:00	16.00	DRLPRO	02	D	P		DRLG F/ 5675' TO 7383' 1708' @ 106.75' PH WOB 22, MW 9.6 VIS 34, RPM 60, MM 134, SPM 165, GPM 595, PU/SO/ROT 199-145-160 PSI ON/OFF 2700-2400, TOR 10-9 K ROT=5.08 HRS 788' @ 155.11 PH SLIDE= .59 HRS 33' @ 55.93 PH
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRLG F/ 7383' TO 7780' 397' @ 52.93' PH WOB 22, MW 9.6 VIS 34 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 205-150-167 PSI ON/OFF 2000-1600, TOR 10-9 K ROT=4.75 HRS 358' @ 75.36' PH SLIDE= 2.75 HRS 39' @ 14.18' PH 10' FLAIR CONN GAS @ 7600'
3/21/2011	0:00 - 14:30	14.50	DRLPRO	02	D	P		DRLG F/ 7780' TO 8524' 744' @ 51.31' PH WOB 22, MW 9.6 VIS 34 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 205-150-167 PSI ON/OFF 2000-1600, TOR 10-9 K ROT=7.92 HRS 622' @ 77.94' PH SLIDE= 6.58 HRS 122' @ 18.58' PH 10' FLAIR CONN GAS @ 7600' 60' FLAIR DRLG GAS @ 8365'
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRLG F/ 8524' TO 8842' 318' @ 35.33' PH WOB 22, MW 11.7 VIS 38 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 207-155-169 PSI ON/OFF 2000-1600, TOR 10-9 K ROT= HRS 358' @ 75.36' PH SLIDE= 4.16 HRS 41' @ 9.85' PH 30' CONN GAS FLAIR
3/22/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRLG F/ 8842' TO 9283' 441' @ 40.09' PH WOB 22, MW 11.7 VIS 38 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 245-155-189 PSI ON/OFF 2800-2400, TOR 12-10 K ROT= 11 HRS 441' @ 40.09' PH 20' CONN GAS FLAIR
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 15:30	4.00	DRLPRO	02	D	P		DRLG F/ 9283' TO 9350' 67' @ 16.75' PH WOB 22, MW 12.1 VIS 41 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 245-155-189 PSI ON/OFF 2800-2400, TOR 12-10 K ROT= 4 HRS 67' @ 16.75' PH RAISE MW FOR TRIP OUT TO 12.1

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 3/18/2011	End Date: 3/24/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 21:00	5.50	DRLPRO	06	A	P		POOH TO CHANGE BIT AND MOTOR (ROP) L/D MOTOR TIGHT @ 4800'
	21:00 - 0:00	3.00	DRLPRO	06	A	P		PICK UP MOTOR M/U BIT SCRIBE MWD RIH\ REAM F/ 4600' TO 4900'
3/23/2011	0:00 - 1:30	1.50	DRLPRO	06	A	P		RIH WASH 90' TO BOTTOM NO FILL
	1:30 - 12:30	11.00	DRLPRO	02	D	P		DRLG F/ 9350' TO 9910' 560' @ 16.75' PH WOB 22, MW 12.2 VIS 41 RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 250-150-190 PSI ON/OFF 2800-2400, TOR 13-12 K ROT= 9.66 HRS 527' @ 54.55' PH SLIDE=1.34 33' @ 7.34' PH LOST 60 BBL MUD
	12:30 - 14:30	2.00	DRLPRO	05	C	P		PUMP HIGH VISC SWEEP CIRC HOLE CLEAN
	14:30 - 19:00	4.50	DRLPRO	06	E	P		WIPER TRIP UP TO 4000' WASH 50' TO BOTTOM NO FILL
	19:00 - 21:00	2.00	DRLPRO	05	F	P		PUMP HIGH VISC SWEEP CIRC HOLE CLEAN 20' FLAIR BOTTOMS UP
	21:00 - 0:00	3.00	DRLPRO	06	B	P		POOH FOR O-HOLE LOGS
3/24/2011	0:00 - 0:30	0.50	DRLPRO	06	B	P		POOH FOR LOG'S L/D MOTOR
	0:30 - 4:30	4.00	DRLPRO	11	D	P		RIG UP AND RUN O-HOLE LOGS TD-7310
	4:30 - 5:00	0.50	DRLPRO	14	B	P		PULL W/BUSHING
	5:00 - 6:00	1.00	DRLPRO	12	A	P		RIG UP CSG EQUIP
	6:00 - 13:30	7.50	DRLPRO	12	C	P		RUN 5 JTS P-110 (213')- 229 JTS 2 MARKERS 4.5" 11.6# I-80 BUTT CSG SHOE @ 9895' F/C @ 9852' MARKER @ 7618' MARKER @ 4944' TOTAL 236 JTS
	13:30 - 14:30	1.00	DRLPRO	05	D	P		CIRC PRIOR TO CEMENT JOB
	14:30 - 15:00	0.50	DRLPRO	12	B	P		RIG UP BJ CEMENTERS
	15:00 - 17:30	2.50	DRLPRO	12	E	P		606 SKS LEAD 12.4- 1268 SKS TAIL14.3 153 BBL DISPLACMENT PLUG DOWN @ 17:30 BUMPED 3210 PSI HELD 3 MIN 2 BBL BACK LIFT PSI 2600 PLUG HELD
	17:30 - 18:00	0.50	DRLPRO	14	B	P		SET SLIPS 110K- LIFT BOP- CUT CSG

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011	
Project: UTAH-UINTAH	Site: NBU 921-35O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 3/18/2011		End Date: 3/24/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 21:30	3.50	DRLPRO	14	A	P		N/D BOPE CLEAN PITS RELEASE RIG 21:30 3/24/11 PRODUCTION: Rig Move/Skid start date/time: 3/18/2011 12:00 Rig Move/Skid finish date/time: 3/18/2011 13:00 Total MOVE hours: 1.0 Prod Rig Spud date/time: 3/18/2011 21:30 Rig Release date/time: 3/24/2011 21:30 Total SPUD to RR hours: 144.0 Planned depth MD 9,903 Planned depth TVD 9,685 Actual MD: 9,910 Actual TVD: 9,691 Open Wells $: AFE $: Open wells $/ft: PRODUCTION HOLE: Prod. From depth: 2,543 Prod. To depth: 9,910 Total PROD hours: 99 Log Depth: 7310 Float Collar Top Depth: 9852 Production Casing size: 4 1/2 # of casing joints ran: 236 Casing set MD: 9,895.0 Stage 1 # sx of cement: LEAD=606, TAIL=1268 Cement density (ppg:) 12.4-14.3 Cement yield (ft3/sk): 2.03-1.31 Stage 2 # sx of cement: Cement density (ppg:) Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg:) Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : Describe cement issues: Describe hole issues: DIRECTIONAL INFO: KOP: 249 Max angle: 22.45 Departure: 270.00 Max dogleg MD: 2.59-2045'

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-35N4BS (YELLOW)		
Common Name	NBU 921-35N4BS		
Well Name	NBU 921-35N4BS	**Wellbore No.**	OH
Report No.	1	**Report Date**	6/13/2011
Project	UTAH-UINTAH	**Site**	NBU 921-35O PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	6/13/2011	**End Date**	6/22/2011
Spud Date	2/18/2011	**Active Datum**	RKB @5,119.00ft (above Mean Sea Level)
UWI	SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	**Job Method**	PERFORATE	**Supervisor**	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,869.0 (ft)-9,658.0 (ft)	**Start Date/Time**	6/13/2011 12:00AM
No. of Intervals	24	**End Date/Time**	6/13/2011 12:00AM
Total Shots	163	**Net Perforation Interval**	47.00 (ft)
Avg Shot Density	3.47 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,869.0	5,872.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

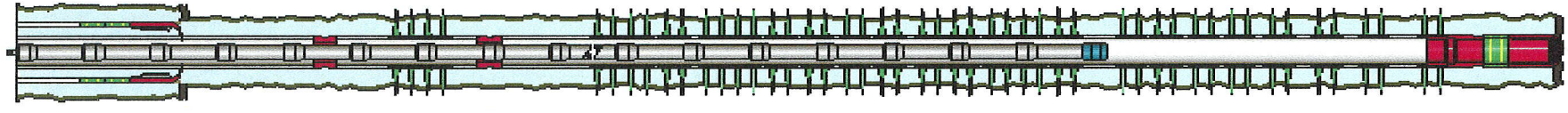
Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,880.0	5,884.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,978.0	7,980.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,026.0	8,028.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,108.0	8,110.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,263.0	8,265.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,280.0	8,282.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,344.0	8,346.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,444.0	8,446.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,569.0	8,571.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,642.0	8,644.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,814.0	8,815.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,840.0	8,841.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,944.0	8,946.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,973.0	8,975.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,042.0	9,044.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,112.0	9,113.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,137.0	9,138.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,180.0	9,182.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,216.0	9,218.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,278.0	9,280.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,378.0	9,379.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			9,480.0	9,482.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,655.0	9,658.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/22/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/10/2011	7:00 - 15:00	8.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 12 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 87 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 30 MIN. LOST 44 PSI. BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFWE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/22/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/13/2011	8:30 - 18:00	9.50	COMP	36	B	P		PERF STG 1)PU PU & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH' P/U PERF AS PER STG 1 PERF DESIGN. POOH. FRAC STG 1)WHP 711 PSI, BRK 3600 PSI @ 4.6 BPM. ISIP 2827 PSI, FG .74. PUMP 100 BBLS @ 38.2 BPM @ 5924 PSI = 71% HOLES OPEN. ISIP 2947 PSI, FG .75, NPI 120 PSI. MP 6608 PSI, MR 44.2 BPM, AP 5965 PSI, AR 36.5 BPM, PMP 789 BBLS SW & 8486 LBS OF 30/50 SND & 2458 LBS OF 20/40 RESIN SND. TOTAL PROP 10,944 LBS X-OVER TO PERF CREW PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9320' P/U PERF AS PER PERF DESIGN. POOHX-OVER TO FRAC CREW FRAC STG 2)WHP 1520 PSI, BRK 4691 PSI @ 6.0 BPM. ISIP 2978 PSI, FG .76. PUMP 100 BBLS @ 36.6 BPM @ 5610 PSI = 66% HOLES OPEN. ISIP 2894 PSI, FG .75, NPI -84 PSI. MP 6566 PSI, MR 48.1 BPM, AP 5956 PSI, AR 45.7 BPM, PMP 698 BBLS SW & 9489 LBS OF 30/50 SND & 2571 LBS OF 20/40 RESIN SND. TOTAL PROP 12,060 LBS SWI X-OVER TO WIRE LINE PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9074' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 3)WHP 835 PSI, BRK 2607 PSI @ 6.0 BPM. ISIP 2110 PSI, FG .68. PUMP 100 BBLS @ 40.2 BPM @ 5296 PSI = 64% HOLES OPEN. ISIP 2590 PSI, FG .73, NPI 480 PSI. MP 6308 PSI, MR 51 BPM, AP 5570 PSI, AR 49.2 BPM, PMP 830 BBLS SW & 12,993 LBS OF 30/50 SND & 2117 LBS OF 20/40 RESIN SND. TOTAL PROP 15,110 LBS,SWI X-OVER TO WL PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8694' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC FRAC STG 4)WHP 625 PSI, BRK 3990 PSI @ 4.7 BPM. ISIP 2931 PSI, FG .78 PUMP 100 BBLS @ 27.3 BPM @ 5742 PSI = 60% HOLES OPEN. ISIP 2926 PSI, FG .78, NPI -5 PSI. MP 6502 PSI, MR 47.1 BPM, AP 5872 PSI, AR 38.5 BPM, PMP 681 BBLS SW & 8683 LBS OF 30/50 SND & 2403 LBS OF 20/40 RESIN SND. TOTAL PROP 11,086 LBS,SWI X-OVER TO PERF. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/22/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8694' P/U PERF AS PER STG 5 PERF DESIGN. POOH. SWIFN.
6/14/2011	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES. WIRE LINE AWARENESS.
	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 5)WHP 1634 PSI, BRK 2634 PSI @ 4.6 BPM. ISIP 2052 PSI, FG .69. PUMP 100 BBLS @ 48.5 BPM @ 6014 PSI = 69% HOLES OPEN. ISIP 2818 PSI, FG .78, NPI 766 PSI. MP 6505 PSI, MR 50.8 BPM, AP 5505 PSI, AR 49.3 BPM, PMP 1398 BBLS SW & 26,316 LBS OF 30/50 SND & 2586 LBS OF 20/40 RESIN SND. TOTAL PROP 28,902 LBS.SWI X-OVER TO WL PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8160' P/U PERF AS PER DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 6)WHP 440 PSI, BRK 2727 PSI @ 5-0 BPM. ISIP 1944 PSI, FG .68. PUMP 100 BBLS @ 47.3 BPM @ 5808 PSI = 67% HOLES OPEN. ISIP 2330 PSI, FG .73, NPI 380 PSI. MP 6349 PSI, MR 50.5 BPM, AP 5802 PSI, AR 49.7 BPM, PMP 645 BBLS SW & 8905 LBS OF 30/50 SND & 2549 LBS OF 20/40 RESIN SND. TOTAL PROP 11,454 LBS.SWI X-OVER TO WL PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5934' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 7)WHP 160 PSI, BRK 755 PSI @ 4.8 BPM. ISIP 387 PSI, FG .50. FG VERY LOW. CALL ZACH GARRITY. DID NOT FRAC STG 7 DUE T/ VERY LOW FG. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 5819'. POOH. SWI. DONE FRACING THIS WELL. TOTAL SAND = 89,556 LBS TOTAL CLFL = 4954 BBLS TOTAL SCALE = 576 GAL TOTAL BIO = 101 GAL
6/21/2011	11:00 - 13:00	2.00	COMP	30	A	P		RDSU. MOVE OVER. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG.
	13:00 - 17:00	4.00	COMP	31	I	P		MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. PU 150-JTS, EOT AT 4725'. SDFN.
6/22/2011	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/22/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	44	C	P		OPEN WELL 0 PSI. CONT PU 2 3/8 L-80 TBG. TAG SAND @ 5820' RU DRL EQUIP. TEST BOP'S T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. BRK CONV CIRC. BEG DRL OUT. 1ST CBP)TAG SAND @ 5820' = 15' SAND. DRL OUT CBP @ 5835' IN 7 MIN. 0 PSI INCR. CONT RIH. 2ND CBP)TAG SAND @ 5920' = 5' SAND. DRL OUT CBP @ 5925' IN 4 MIN, 0 PSI INCR. CONT RIH. 3RD CBP)TAG SAND @ 8120' =25' SAND. DRL OUT CBP @ 8145' IN 7 MIN. 700 PSI INCR. CONT RIH. 4TH CBP)TAG SAND @ 8345' = 35' SAND. DRL OUT CBP @ 8380' IN 5 MIN. 250 PSI INCR. CONT RIH. 5TH CBP)TAG SAND @ 8640' = 40' SAND. DRL OUT CBP @ 8680' IN 5 MIN. 200 PSI INCR. CONT RIH. 6TH CBP)TAG SAND @ 9044' = 30' SAND. DRL OUT CBP @ 9074' IN 2 MIN. 200 PSI INCR. CONT RIH. 7TH CBP)TAG SAND @ 9280' =30' SAND. DRL OUT CBP @ 9310' IN 4 MIN. 300 PSI INCR. CONT RIH. TAG SAND @ 9658'. C/O SAND T/ PBTD @ 9800'. CIRC WELL W/ 30 BBLS. RD DRL EQUIP. POOH, LD EXESS 2 3/8 L-80 TBG. PU 4 1/16 TBG HNGR & LAND TBG W/ KB = 19' 4 1/16 TBG HNGR = .83 286 JTS 2 3/8 L-80 TBG = 9056.84 (1.875) XN-NIPPLE = 1.86 EOT @ 9078.58' ND BOP, NUWH. DROP BALL. PUMP BIT OFF W/ 20 BBLS. SWI FOR 30 MIN T/ LET BIT FALL T/ PBTD. OPEN WELL T/ PIT. UNLOAD TBG. TURN WELL OVER T/ FBC. RD RIG. SLIDE OVER T/ NEXT WELL. (35N4CS, GREEN WELL.) RU RIG. PREP & TALLY NEW 2 3/8 L-80 TBG.
	13:45 - 13:45	0.00	PROD	50				WELL TURNED TO SALES @ 1345 HR ON 6/22/11 - 1000 MCFD, 1920 BWPD, CP 1850#, FTP 1550#, CK 20/64"
6/23/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1600#, 20/64" CK, 45 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 1956 BBLS LEFT TO RECOVER: 2998
6/24/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2150#, TP 1400#, 20/64" CK, 35 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 2872 BBLS LEFT TO RECOVER: 2082
6/25/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 1250#, 20/64" CK, 26 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 3593 BBLS LEFT TO RECOVER: 1361
6/26/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2000#, TP 1150#, 20/64" CK, 18 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4113 BBLS LEFT TO RECOVER: 841

Scientific Drilling
Rocky Mountain Operations

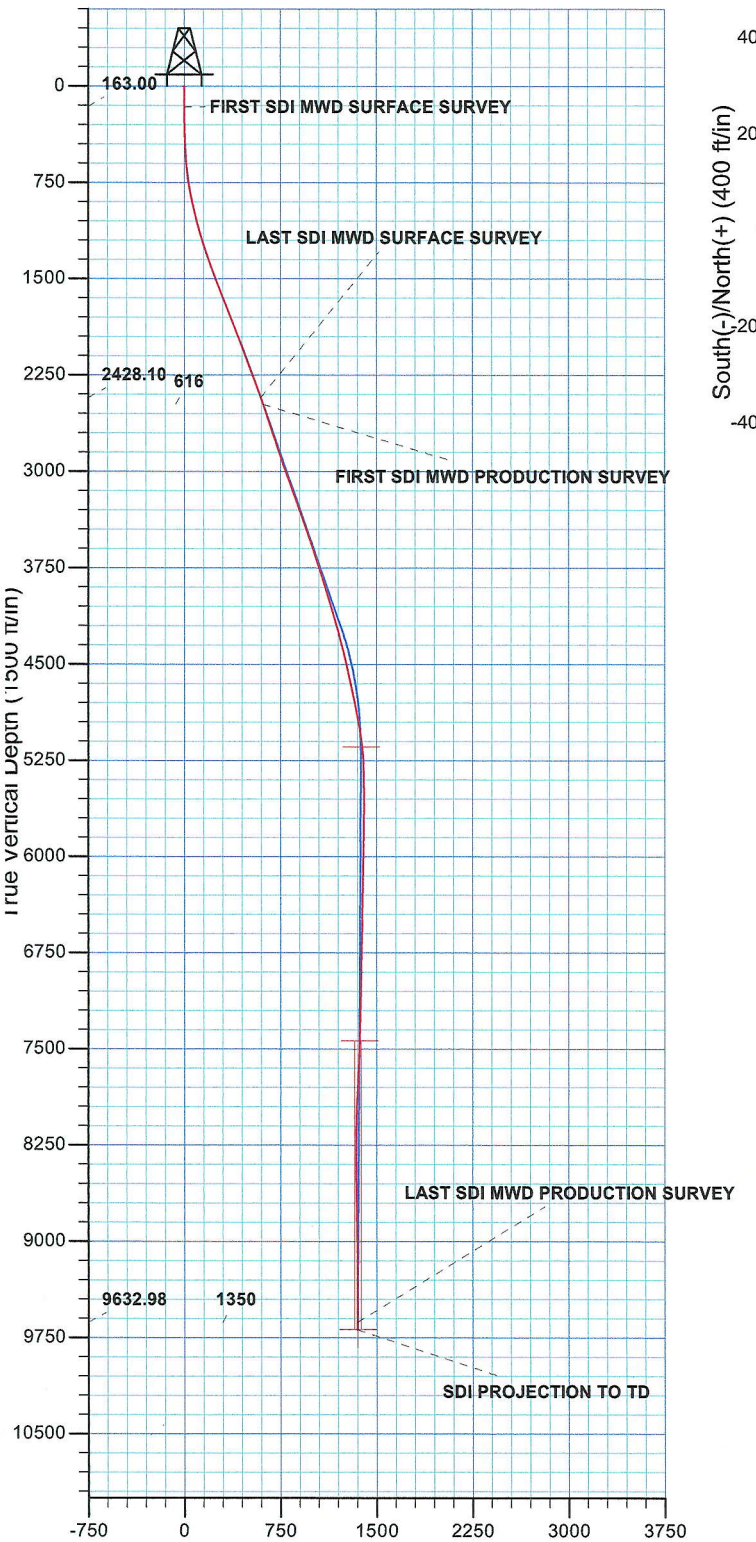
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-35O PAD
Well: NBU 921-35N4BS
Wellbore: NBU 921-35N4BS
Design: NBU 921-35N4BS

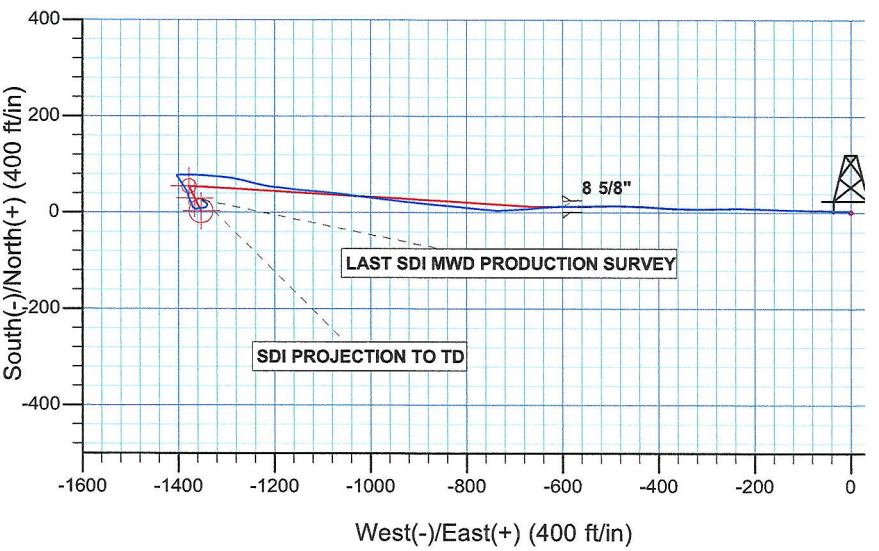
Anadarko Petroleum Corporation

WELL DETAILS: NBU 921-35N4BS					
GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	14524541.29	2056367.31	39° 59' 10.892 N	109° 30' 54.346 W

Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
Strength: 52352.2snT
Dip Angle: 65.86°
Date: 02/11/2011
Model: IGRF2010





PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 35 T9S R21E
System Datum:	Mean Sea Level

Design: NBU 921-35N4BS (NBU 921-35N4BS/NBU 921-35N4BS)

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-35O PAD
NBU 921-35N4BS

NBU 921-35N4BS

Design: NBU 921-35N4BS

Standard Survey Report

29 March, 2011

Anadarko
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E				
Site Position:		**Northing:**	14,524,559.98 usft	**Latitude:**	39° 59' 11.076 N
From:	Lat/Long	**Easting:**	2,056,374.00 usft	**Longitude:**	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.95 °

Well	NBU 921-35N4BS, 388 FSL 1770 FEL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,524,541.29 usft	**Latitude:**	39° 59' 10.892 N
	+E/-W	0.00 ft	**Easting:**	2,056,367.31 usft	**Longitude:**	109° 30' 54.346 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,100.00 ft

Wellbore	NBU 921-35N4BS				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	02/11/2011	11.12	65.86	52,352

Design	NBU 921-35N4BS					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		0.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**		
	0.00	0.00	0.00	271.21		

Survey Program	**Date** 03/29/2011			
From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
15.00	2,525.00	Survey #1 SDI MWD SURFACE (NBU 921	SDI MWD	SDI MWD - Standard ver 1.0.1
2,582.00	9,910.00	Survey #2 SDI MWD PRODUCTION (NBU	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	0.55	18.80	163.00	0.67	0.23	-0.21	0.37	0.37	0.00
FIRST SDI MWD SURFACE SURVEY									
249.00	1.08	320.96	248.99	1.69	-0.15	0.18	1.06	0.62	-67.26
334.00	1.47	287.39	333.97	2.64	-1.69	1.75	0.97	0.46	-39.49
425.00	2.61	267.61	424.91	2.90	-4.88	4.94	1.45	1.25	-21.74
515.00	3.94	270.85	514.76	2.86	-10.02	10.08	1.49	1.48	3.60
605.00	5.39	272.15	604.46	3.07	-17.33	17.39	1.62	1.61	1.44
695.00	7.24	270.99	693.91	3.32	-27.23	27.29	2.06	2.06	-1.29

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
785.00	9.23	272.25	782.98	3.71	-40.11	40.18	2.22	2.21	1.40
875.00	10.97	270.31	871.58	4.04	-55.89	55.96	1.97	1.93	-2.16
965.00	12.93	270.75	959.63	4.21	-74.52	74.59	2.18	2.18	0.49
1,055.00	14.53	271.16	1,047.05	4.57	-95.88	95.95	1.78	1.78	0.46
1,145.00	16.05	271.71	1,133.86	5.17	-119.60	119.69	1.70	1.69	0.61
1,235.00	17.49	272.57	1,220.03	6.15	-145.55	145.65	1.62	1.60	0.96
1,325.00	19.13	272.45	1,305.48	7.39	-173.80	173.92	1.82	1.82	-0.13
1,415.00	19.25	270.57	1,390.48	8.17	-203.37	203.49	0.70	0.13	-2.09
1,505.00	20.18	270.46	1,475.20	8.44	-233.73	233.85	1.03	1.03	-0.12
1,595.00	21.11	268.48	1,559.42	8.13	-265.45	265.57	1.29	1.03	-2.20
1,685.00	22.09	268.90	1,643.10	7.38	-298.58	298.66	1.10	1.09	0.47
1,775.00	21.50	270.89	1,726.67	7.31	-331.99	332.07	1.05	-0.66	2.21
1,865.00	21.05	272.44	1,810.53	8.25	-364.63	364.72	0.80	-0.50	1.72
1,955.00	21.19	273.66	1,894.49	9.98	-397.01	397.13	0.51	0.16	1.36
2,045.00	22.45	272.83	1,978.04	11.87	-430.40	430.56	1.44	1.40	-0.92
2,135.00	20.15	271.74	2,061.88	13.19	-463.07	463.24	2.59	-2.56	-1.21
2,225.00	20.13	269.88	2,146.38	13.63	-494.05	494.23	0.71	-0.02	-2.07
2,315.00	20.14	268.35	2,230.88	13.15	-525.02	525.18	0.59	0.01	-1.70
2,405.00	20.28	270.28	2,315.34	12.78	-556.11	556.25	0.76	0.16	2.14
2,495.00	19.96	269.45	2,399.85	12.71	-587.07	587.20	0.48	-0.36	-0.92
2,525.00	19.34	268.92	2,428.10	12.56	-597.15	597.29	2.15	-2.07	-1.77
LAST SDI MWD SURFACE SURVEY									
2,582.00	18.87	267.28	2,481.96	11.95	-615.80	615.91	1.25	-0.82	-2.88
FIRST SDI MWD PRODUCTION SURVEY									
2,677.00	18.94	266.30	2,571.84	10.22	-646.53	646.60	0.34	0.07	-1.03
2,771.00	18.30	263.41	2,660.92	7.55	-676.41	676.42	1.19	-0.68	-3.07
2,866.00	18.42	266.17	2,751.09	4.83	-706.21	706.15	0.92	0.13	2.91
2,961.00	17.97	271.96	2,841.34	4.33	-735.83	735.76	1.96	-0.47	6.09
3,056.00	19.39	274.58	2,931.34	6.09	-766.20	766.16	1.74	1.49	2.76
3,151.00	20.13	275.91	3,020.74	9.03	-798.18	798.19	0.91	0.78	1.40
3,246.00	20.68	276.37	3,109.78	12.58	-831.11	831.19	0.60	0.58	0.48
3,341.00	20.10	275.39	3,198.83	15.97	-864.03	864.18	0.71	-0.61	-1.03
3,436.00	19.67	275.55	3,288.17	19.05	-896.20	896.40	0.46	-0.45	0.17
3,531.00	19.09	275.62	3,377.78	22.12	-927.57	927.83	0.61	-0.61	0.07
3,625.00	18.42	276.38	3,466.79	25.27	-957.63	957.95	0.76	-0.71	0.81
3,720.00	19.11	276.51	3,556.74	28.71	-988.00	988.38	0.73	0.73	0.14
3,815.00	18.93	277.08	3,646.55	32.37	-1,018.74	1,019.19	0.27	-0.19	0.60
3,910.00	18.05	278.47	3,736.65	36.44	-1,048.59	1,049.12	1.04	-0.93	1.46
4,006.00	17.54	275.89	3,828.06	40.11	-1,077.69	1,078.29	0.98	-0.53	-2.69
4,100.00	16.75	275.29	3,917.88	42.81	-1,105.27	1,105.92	0.86	-0.84	-0.64
4,196.00	16.37	275.19	4,009.90	45.31	-1,132.51	1,133.22	0.40	-0.40	-0.10
4,291.00	16.37	275.54	4,101.05	47.82	-1,159.17	1,159.92	0.10	0.00	0.37
4,386.00	15.99	277.51	4,192.29	50.82	-1,185.47	1,186.28	0.70	-0.40	2.07

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,481.00	14.73	277.84	4,283.89	54.18	-1,210.41	1,211.28	1.33	-1.33	0.35
4,576.00	14.12	283.55	4,375.90	58.54	-1,233.64	1,234.60	1.63	-0.64	6.01
4,671.00	14.40	284.36	4,467.97	64.18	-1,256.35	1,257.42	0.36	0.29	0.85
4,766.00	12.83	282.17	4,560.30	69.34	-1,278.10	1,279.28	1.74	-1.65	-2.31
4,861.00	12.07	275.25	4,653.07	72.47	-1,298.31	1,299.54	1.76	-0.80	-7.28
4,956.00	11.67	275.88	4,746.04	74.36	-1,317.76	1,319.03	0.44	-0.42	0.66
5,051.00	11.37	274.95	4,839.13	76.16	-1,336.64	1,337.95	0.37	-0.32	-0.98
5,145.00	10.14	273.52	4,931.47	77.46	-1,354.13	1,355.46	1.34	-1.31	-1.52
5,240.00	8.83	270.91	5,025.17	78.09	-1,369.77	1,371.11	1.45	-1.38	-2.75
5,335.00	6.80	270.56	5,119.29	78.26	-1,382.69	1,384.03	2.14	-2.14	-0.37
5,430.00	4.92	266.86	5,213.79	78.09	-1,392.38	1,393.71	2.02	-1.98	-3.89
5,524.00	3.04	266.92	5,307.55	77.74	-1,398.89	1,400.22	2.00	-2.00	0.06
5,619.00	1.59	238.36	5,402.48	76.91	-1,402.53	1,403.84	1.91	-1.53	-30.06
5,714.00	1.31	135.69	5,497.46	75.44	-1,402.89	1,404.17	2.39	-0.29	-108.07
5,809.00	1.04	138.10	5,592.44	74.03	-1,401.56	1,402.81	0.29	-0.28	2.54
5,904.00	0.94	150.80	5,687.42	72.70	-1,400.60	1,401.82	0.25	-0.11	13.37
5,998.00	1.01	147.15	5,781.41	71.33	-1,399.78	1,400.97	0.10	0.07	-3.88
6,093.00	1.19	152.20	5,876.39	69.76	-1,398.86	1,400.02	0.22	0.19	5.32
6,188.00	1.17	150.38	5,971.37	68.04	-1,397.93	1,399.05	0.04	-0.02	-1.92
6,283.00	2.31	143.48	6,066.33	65.66	-1,396.31	1,397.38	1.22	1.20	-7.26
6,378.00	2.22	140.06	6,161.25	62.71	-1,393.99	1,395.00	0.17	-0.09	-3.60
6,473.00	2.18	145.36	6,256.18	59.81	-1,391.78	1,392.73	0.22	-0.04	5.58
6,568.00	2.29	147.11	6,351.11	56.73	-1,389.72	1,390.61	0.14	0.12	1.84
6,663.00	2.20	151.27	6,446.04	53.54	-1,387.81	1,388.63	0.20	-0.09	4.38
6,757.00	2.35	151.20	6,539.96	50.27	-1,386.02	1,386.77	0.16	0.16	-0.07
6,852.00	2.38	151.90	6,634.88	46.82	-1,384.15	1,384.83	0.04	0.03	0.74
6,947.00	2.45	153.23	6,729.80	43.27	-1,382.31	1,382.91	0.09	0.07	1.40
7,041.00	2.76	164.00	6,823.70	39.30	-1,380.78	1,381.30	0.61	0.33	11.46
7,137.00	2.76	161.86	6,919.59	34.88	-1,379.42	1,379.85	0.11	0.00	-2.23
7,232.00	3.01	161.14	7,014.47	30.35	-1,377.90	1,378.24	0.27	0.26	-0.76
7,327.00	2.94	157.94	7,109.34	25.73	-1,376.18	1,376.42	0.19	-0.07	-3.37
7,423.00	2.99	159.90	7,205.21	21.10	-1,374.40	1,374.54	0.12	0.05	2.04
7,518.00	3.01	158.75	7,300.08	16.45	-1,372.64	1,372.68	0.07	0.02	-1.21
7,613.00	2.88	154.25	7,394.96	11.97	-1,370.70	1,370.65	0.28	-0.14	-4.74
7,708.00	2.72	129.27	7,489.85	8.40	-1,367.92	1,367.79	1.28	-0.17	-26.29
7,803.00	2.62	95.06	7,584.75	6.78	-1,364.01	1,363.85	1.66	-0.11	-36.01
7,898.00	2.65	83.94	7,679.65	6.82	-1,359.66	1,359.51	0.54	0.03	-11.71
7,994.00	2.76	76.10	7,775.55	7.61	-1,355.21	1,355.07	0.40	0.11	-8.17
8,088.00	2.69	80.70	7,869.44	8.51	-1,350.84	1,350.72	0.24	-0.07	4.89
8,183.00	2.89	85.45	7,964.33	9.06	-1,346.25	1,346.14	0.32	0.21	5.00
8,278.00	2.37	60.08	8,059.23	10.23	-1,342.16	1,342.08	1.33	-0.55	-26.71
8,373.00	1.85	355.98	8,154.18	12.74	-1,340.57	1,340.54	2.40	-0.55	-67.47
8,468.00	1.69	10.57	8,249.13	15.64	-1,340.42	1,340.45	0.50	-0.17	15.36
8,563.00	1.20	342.43	8,344.10	17.97	-1,340.46	1,340.54	0.89	-0.52	-29.62

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,658.00	1.29	306.67	8,439.08	19.56	-1,341.62	1,341.73	0.81	0.09	-37.64
8,753.00	1.21	288.61	8,534.06	20.52	-1,343.43	1,343.56	0.42	-0.08	-19.01
8,848.00	0.91	297.07	8,629.04	21.18	-1,345.05	1,345.20	0.36	-0.32	8.91
8,943.00	0.91	287.11	8,724.03	21.74	-1,346.44	1,346.60	0.17	0.00	-10.48
9,038.00	1.04	299.88	8,819.02	22.40	-1,347.91	1,348.08	0.27	0.14	13.44
9,132.00	0.75	325.09	8,913.01	23.32	-1,349.00	1,349.19	0.51	-0.31	26.82
9,227.00	0.65	350.17	9,008.00	24.37	-1,349.45	1,349.66	0.34	-0.11	26.40
9,322.00	0.70	328.72	9,102.99	25.39	-1,349.84	1,350.08	0.27	0.05	-22.58
9,416.00	0.44	243.66	9,196.99	25.72	-1,350.46	1,350.71	0.84	-0.28	-90.49
9,511.00	0.27	27.12	9,291.99	25.76	-1,350.69	1,350.93	0.71	-0.18	151.01
9,606.00	0.20	63.25	9,386.99	26.03	-1,350.44	1,350.69	0.17	-0.07	38.03
9,701.00	0.30	98.27	9,481.99	26.07	-1,350.04	1,350.29	0.19	0.11	36.86
9,796.00	0.43	149.27	9,576.99	25.73	-1,349.62	1,349.86	0.35	0.14	53.68
9,852.00	0.51	124.73	9,632.98	25.41	-1,349.30	1,349.54	0.38	0.14	-43.82
LAST SDI MWD PRODUCTION SURVEY									
9,910.00	0.51	124.73	9,690.98	25.11	-1,348.88	1,349.11	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
163.00	163.00	0.67	0.23	FIRST SDI MWD SURFACE SURVEY
2,525.00	2,428.10	12.56	-597.15	LAST SDI MWD SURFACE SURVEY
2,582.00	2,481.96	11.95	-615.80	FIRST SDI MWD PRODUCTION SURVEY
9,852.00	9,632.98	25.41	-1,349.30	LAST SDI MWD PRODUCTION SURVEY
9,910.00	9,690.98	25.11	-1,348.88	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-35O PAD
NBU 921-35N4BS

NBU 921-35N4BS

Design: NBU 921-35N4BS

Survey Report - Geographic

29 March, 2011

Anadarko
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E				
Site Position:		**Northing:**	14,524,559.98 usft	**Latitude:**	39° 59' 11.076 N
From:	Lat/Long	**Easting:**	2,056,374.00 usft	**Longitude:**	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.95 °

Well	NBU 921-35N4BS, 388 FSL 1770 FEL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,524,541.29 usft	**Latitude:**	39° 59' 10.892 N
	+E/-W	0.00 ft	**Easting:**	2,056,367.31 usft	**Longitude:**	109° 30' 54.346 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,100.00 ft

Wellbore	NBU 921-35N4BS				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	02/11/2011	11.12	65.86	52,352

Design	NBU 921-35N4BS					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		0.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**		
	0.00	0.00	0.00	271.21		

Survey Program	**Date** 03/29/2011			
From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
15.00	2,525.00	Survey #1 SDI MWD SURFACE (NBU 921	SDI MWD	SDI MWD - Standard ver 1.0.1
2,582.00	9,910.00	Survey #2 SDI MWD PRODUCTION (NBU	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
15.00	0.00	0.00	15.00	0.00	0.00	14,524,541.29	2,056,367.31	39° 59' 10.892 N	109° 30' 54.346 W
163.00	0.55	18.80	163.00	0.67	0.23	14,524,541.97	2,056,367.52	39° 59' 10.899 N	109° 30' 54.343 W
FIRST SDI MWD SURFACE SURVEY									
249.00	1.08	320.96	248.99	1.69	-0.15	14,524,542.98	2,056,367.13	39° 59' 10.909 N	109° 30' 54.348 W
334.00	1.47	287.39	333.97	2.64	-1.69	14,524,543.90	2,056,365.57	39° 59' 10.919 N	109° 30' 54.367 W
425.00	2.61	267.61	424.91	2.90	-4.88	14,524,544.11	2,056,362.38	39° 59' 10.921 N	109° 30' 54.408 W
515.00	3.94	270.85	514.76	2.86	-10.02	14,524,543.99	2,056,357.24	39° 59' 10.921 N	109° 30' 54.474 W
605.00	5.39	272.15	604.46	3.07	-17.33	14,524,544.07	2,056,349.92	39° 59' 10.923 N	109° 30' 54.568 W
695.00	7.24	270.99	693.91	3.32	-27.23	14,524,544.16	2,056,340.03	39° 59' 10.925 N	109° 30' 54.695 W
785.00	9.23	272.25	782.98	3.71	-40.11	14,524,544.33	2,056,327.14	39° 59' 10.929 N	109° 30' 54.861 W

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
875.00	10.97	270.31	871.58	4.04	-55.89	14,524,544.40	2,056,311.36	39° 59' 10.932 N	109° 30' 55.064 W
965.00	12.93	270.75	959.63	4.21	-74.52	14,524,544.26	2,056,292.72	39° 59' 10.934 N	109° 30' 55.303 W
1,055.00	14.53	271.16	1,047.05	4.57	-95.88	14,524,544.27	2,056,271.36	39° 59' 10.938 N	109° 30' 55.578 W
1,145.00	16.05	271.71	1,133.86	5.17	-119.60	14,524,544.47	2,056,247.63	39° 59' 10.944 N	109° 30' 55.882 W
1,235.00	17.49	272.57	1,220.03	6.15	-145.55	14,524,545.02	2,056,221.67	39° 59' 10.953 N	109° 30' 56.216 W
1,325.00	19.13	272.45	1,305.48	7.39	-173.80	14,524,545.78	2,056,193.41	39° 59' 10.965 N	109° 30' 56.579 W
1,415.00	19.25	270.57	1,390.48	8.17	-203.37	14,524,546.07	2,056,163.83	39° 59' 10.973 N	109° 30' 56.959 W
1,505.00	20.18	270.46	1,475.20	8.44	-233.73	14,524,545.84	2,056,133.47	39° 59' 10.976 N	109° 30' 57.349 W
1,595.00	21.11	268.48	1,559.42	8.13	-265.45	14,524,545.00	2,056,101.75	39° 59' 10.973 N	109° 30' 57.756 W
1,685.00	22.09	268.90	1,643.10	7.38	-298.58	14,524,543.70	2,056,068.65	39° 59' 10.965 N	109° 30' 58.182 W
1,775.00	21.50	270.89	1,726.67	7.31	-331.99	14,524,543.07	2,056,035.24	39° 59' 10.965 N	109° 30' 58.611 W
1,865.00	21.05	272.44	1,810.53	8.25	-364.63	14,524,543.47	2,056,002.59	39° 59' 10.974 N	109° 30' 59.031 W
1,955.00	21.19	273.66	1,894.49	9.98	-397.01	14,524,544.66	2,055,970.19	39° 59' 10.991 N	109° 30' 59.447 W
2,045.00	22.45	272.83	1,978.04	11.87	-430.40	14,524,545.99	2,055,936.76	39° 59' 11.010 N	109° 30' 59.876 W
2,135.00	20.15	271.74	2,061.88	13.19	-463.07	14,524,546.76	2,055,904.08	39° 59' 11.023 N	109° 31' 0.296 W
2,225.00	20.13	269.88	2,146.38	13.63	-494.05	14,524,546.69	2,055,873.10	39° 59' 11.027 N	109° 31' 0.694 W
2,315.00	20.14	268.35	2,230.88	13.15	-525.02	14,524,545.69	2,055,842.14	39° 59' 11.022 N	109° 31' 1.092 W
2,405.00	20.28	270.28	2,315.34	12.78	-556.11	14,524,544.80	2,055,811.06	39° 59' 11.019 N	109° 31' 1.491 W
2,495.00	19.96	269.45	2,399.85	12.71	-587.07	14,524,544.22	2,055,780.11	39° 59' 11.018 N	109° 31' 1.889 W
2,525.00	19.34	268.92	2,428.10	12.56	-597.15	14,524,543.91	2,055,770.03	39° 59' 11.017 N	109° 31' 2.019 W
LAST SDI MWD SURFACE SURVEY									
2,582.00	18.87	267.28	2,481.96	11.95	-615.80	14,524,542.98	2,055,751.40	39° 59' 11.010 N	109° 31' 2.258 W
FIRST SDI MWD PRODUCTION SURVEY									
2,677.00	18.94	266.30	2,571.84	10.22	-646.53	14,524,540.74	2,055,720.70	39° 59' 10.993 N	109° 31' 2.653 W
2,771.00	18.30	263.41	2,660.92	7.55	-676.41	14,524,537.57	2,055,690.86	39° 59' 10.967 N	109° 31' 3.037 W
2,866.00	18.42	266.17	2,751.09	4.83	-706.21	14,524,534.36	2,055,661.12	39° 59' 10.940 N	109° 31' 3.420 W
2,961.00	17.97	271.96	2,841.34	4.33	-735.83	14,524,533.36	2,055,631.51	39° 59' 10.935 N	109° 31' 3.801 W
3,056.00	19.39	274.58	2,931.34	6.09	-766.20	14,524,534.62	2,055,601.12	39° 59' 10.952 N	109° 31' 4.191 W
3,151.00	20.13	275.91	3,020.74	9.03	-798.18	14,524,537.03	2,055,569.09	39° 59' 10.982 N	109° 31' 4.602 W
3,246.00	20.68	276.37	3,109.78	12.58	-831.11	14,524,540.02	2,055,536.10	39° 59' 11.017 N	109° 31' 5.025 W
3,341.00	20.10	275.39	3,198.83	15.97	-864.03	14,524,542.87	2,055,503.13	39° 59' 11.050 N	109° 31' 5.448 W
3,436.00	19.67	275.55	3,288.17	19.05	-896.20	14,524,545.41	2,055,470.92	39° 59' 11.081 N	109° 31' 5.861 W
3,531.00	19.09	275.62	3,377.78	22.12	-927.57	14,524,547.96	2,055,439.50	39° 59' 11.111 N	109° 31' 6.264 W
3,625.00	18.42	276.38	3,466.79	25.27	-957.63	14,524,550.61	2,055,409.39	39° 59' 11.142 N	109° 31' 6.651 W
3,720.00	19.11	276.51	3,556.74	28.71	-988.00	14,524,553.54	2,055,378.97	39° 59' 11.176 N	109° 31' 7.041 W
3,815.00	18.93	277.08	3,646.55	32.37	-1,018.74	14,524,556.69	2,055,348.17	39° 59' 11.212 N	109° 31' 7.436 W
3,910.00	18.05	278.47	3,736.65	36.44	-1,048.59	14,524,560.26	2,055,318.26	39° 59' 11.252 N	109° 31' 7.819 W
4,006.00	17.54	275.89	3,828.06	40.11	-1,077.69	14,524,563.45	2,055,289.10	39° 59' 11.289 N	109° 31' 8.193 W
4,100.00	16.75	275.29	3,917.88	42.81	-1,105.27	14,524,565.69	2,055,261.48	39° 59' 11.315 N	109° 31' 8.548 W
4,196.00	16.37	275.19	4,009.90	45.31	-1,132.51	14,524,567.73	2,055,234.20	39° 59' 11.340 N	109° 31' 8.898 W
4,291.00	16.37	275.54	4,101.05	47.82	-1,159.17	14,524,569.79	2,055,207.50	39° 59' 11.365 N	109° 31' 9.240 W
4,386.00	15.99	277.51	4,192.29	50.82	-1,185.47	14,524,572.36	2,055,181.16	39° 59' 11.394 N	109° 31' 9.578 W
4,481.00	14.73	277.84	4,283.89	54.18	-1,210.41	14,524,575.30	2,055,156.17	39° 59' 11.428 N	109° 31' 9.899 W
4,576.00	14.12	283.55	4,375.90	58.54	-1,233.64	14,524,579.27	2,055,132.87	39° 59' 11.471 N	109° 31' 10.197 W
4,671.00	14.40	284.36	4,467.97	64.18	-1,256.35	14,524,584.54	2,055,110.07	39° 59' 11.526 N	109° 31' 10.489 W
4,766.00	12.83	282.17	4,560.30	69.34	-1,278.10	14,524,589.33	2,055,088.23	39° 59' 11.577 N	109° 31' 10.768 W
4,861.00	12.07	275.25	4,653.07	72.47	-1,298.31	14,524,592.13	2,055,067.97	39° 59' 11.608 N	109° 31' 11.028 W
4,956.00	11.67	275.88	4,746.04	74.36	-1,317.76	14,524,593.69	2,055,048.50	39° 59' 11.627 N	109° 31' 11.278 W
5,051.00	11.37	274.95	4,839.13	76.16	-1,336.64	14,524,595.17	2,055,029.58	39° 59' 11.645 N	109° 31' 11.521 W
5,145.00	10.14	273.52	4,931.47	77.46	-1,354.13	14,524,596.19	2,055,012.07	39° 59' 11.658 N	109° 31' 11.745 W
5,240.00	8.83	270.91	5,025.17	78.09	-1,369.77	14,524,596.56	2,054,996.43	39° 59' 11.664 N	109° 31' 11.946 W
5,335.00	6.80	270.56	5,119.29	78.26	-1,382.69	14,524,596.51	2,054,983.51	39° 59' 11.666 N	109° 31' 12.112 W
5,430.00	4.92	266.86	5,213.79	78.09	-1,392.38	14,524,596.18	2,054,973.82	39° 59' 11.664 N	109° 31' 12.237 W
5,524.00	3.04	266.92	5,307.55	77.74	-1,398.89	14,524,595.72	2,054,967.31	39° 59' 11.660 N	109° 31' 12.321 W
5,619.00	1.59	238.36	5,402.48	76.91	-1,402.53	14,524,594.83	2,054,963.69	39° 59' 11.652 N	109° 31' 12.367 W

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,714.00	1.31	135.69	5,497.46	75.44	-1,402.89	14,524,593.36	2,054,963.35	39° 59' 11.638 N	109° 31' 12.372 W
5,809.00	1.04	138.10	5,592.44	74.03	-1,401.56	14,524,591.96	2,054,964.71	39° 59' 11.624 N	109° 31' 12.355 W
5,904.00	0.94	150.80	5,687.42	72.70	-1,400.60	14,524,590.66	2,054,965.69	39° 59' 11.611 N	109° 31' 12.343 W
5,998.00	1.01	147.15	5,781.41	71.33	-1,399.78	14,524,589.30	2,054,966.54	39° 59' 11.597 N	109° 31' 12.332 W
6,093.00	1.19	152.20	5,876.39	69.76	-1,398.86	14,524,587.74	2,054,967.48	39° 59' 11.582 N	109° 31' 12.320 W
6,188.00	1.17	150.38	5,971.37	68.04	-1,397.93	14,524,586.04	2,054,968.44	39° 59' 11.565 N	109° 31' 12.308 W
6,283.00	2.31	143.48	6,066.33	65.66	-1,396.31	14,524,583.69	2,054,970.10	39° 59' 11.541 N	109° 31' 12.287 W
6,378.00	2.22	140.06	6,161.25	62.71	-1,393.99	14,524,580.77	2,054,972.47	39° 59' 11.512 N	109° 31' 12.257 W
6,473.00	2.18	145.36	6,256.18	59.81	-1,391.78	14,524,577.91	2,054,974.73	39° 59' 11.483 N	109° 31' 12.229 W
6,568.00	2.29	147.11	6,351.11	56.73	-1,389.72	14,524,574.87	2,054,976.84	39° 59' 11.453 N	109° 31' 12.203 W
6,663.00	2.20	151.27	6,446.04	53.54	-1,387.81	14,524,571.71	2,054,978.80	39° 59' 11.421 N	109° 31' 12.178 W
6,757.00	2.35	151.20	6,539.96	50.27	-1,386.02	14,524,568.47	2,054,980.65	39° 59' 11.389 N	109° 31' 12.155 W
6,852.00	2.38	151.90	6,634.88	46.82	-1,384.15	14,524,565.05	2,054,982.57	39° 59' 11.355 N	109° 31' 12.131 W
6,947.00	2.45	153.23	6,729.80	43.27	-1,382.31	14,524,561.53	2,054,984.47	39° 59' 11.320 N	109° 31' 12.107 W
7,041.00	2.76	164.00	6,823.70	39.30	-1,380.78	14,524,557.59	2,054,986.07	39° 59' 11.280 N	109° 31' 12.088 W
7,137.00	2.76	161.86	6,919.59	34.88	-1,379.42	14,524,553.19	2,054,987.50	39° 59' 11.237 N	109° 31' 12.070 W
7,232.00	3.01	161.14	7,014.47	30.35	-1,377.90	14,524,548.68	2,054,989.09	39° 59' 11.192 N	109° 31' 12.051 W
7,327.00	2.94	157.94	7,109.34	25.73	-1,376.18	14,524,544.10	2,054,990.89	39° 59' 11.146 N	109° 31' 12.029 W
7,423.00	2.99	159.90	7,205.21	21.10	-1,374.40	14,524,539.49	2,054,992.75	39° 59' 11.101 N	109° 31' 12.006 W
7,518.00	3.01	158.75	7,300.08	16.45	-1,372.64	14,524,534.87	2,054,994.58	39° 59' 11.055 N	109° 31' 11.983 W
7,613.00	2.88	154.25	7,394.96	11.97	-1,370.70	14,524,530.43	2,054,996.60	39° 59' 11.010 N	109° 31' 11.958 W
7,708.00	2.72	129.27	7,489.85	8.40	-1,367.92	14,524,526.90	2,054,999.44	39° 59' 10.975 N	109° 31' 11.922 W
7,803.00	2.62	95.06	7,584.75	6.78	-1,364.01	14,524,525.35	2,055,003.38	39° 59' 10.959 N	109° 31' 11.872 W
7,898.00	2.65	83.94	7,679.65	6.82	-1,359.66	14,524,525.46	2,055,007.72	39° 59' 10.959 N	109° 31' 11.816 W
7,994.00	2.76	76.10	7,775.55	7.61	-1,355.21	14,524,526.32	2,055,012.16	39° 59' 10.967 N	109° 31' 11.759 W
8,088.00	2.69	80.70	7,869.44	8.51	-1,350.84	14,524,527.30	2,055,016.52	39° 59' 10.976 N	109° 31' 11.703 W
8,183.00	2.89	85.45	7,964.33	9.06	-1,346.25	14,524,527.92	2,055,021.09	39° 59' 10.982 N	109° 31' 11.644 W
8,278.00	2.37	60.08	8,059.23	10.23	-1,342.16	14,524,529.16	2,055,025.16	39° 59' 10.993 N	109° 31' 11.592 W
8,373.00	1.85	355.98	8,154.18	12.74	-1,340.57	14,524,531.70	2,055,026.72	39° 59' 11.018 N	109° 31' 11.571 W
8,468.00	1.69	10.57	8,249.13	15.64	-1,340.42	14,524,534.61	2,055,026.82	39° 59' 11.047 N	109° 31' 11.569 W
8,563.00	1.20	342.43	8,344.10	17.97	-1,340.46	14,524,536.93	2,055,026.74	39° 59' 11.070 N	109° 31' 11.570 W
8,658.00	1.29	306.67	8,439.08	19.56	-1,341.62	14,524,538.50	2,055,025.55	39° 59' 11.085 N	109° 31' 11.585 W
8,753.00	1.21	288.61	8,534.06	20.52	-1,343.43	14,524,539.43	2,055,023.73	39° 59' 11.095 N	109° 31' 11.608 W
8,848.00	0.91	297.07	8,629.04	21.18	-1,345.05	14,524,540.06	2,055,022.09	39° 59' 11.101 N	109° 31' 11.629 W
8,943.00	0.91	287.11	8,724.03	21.74	-1,346.44	14,524,540.60	2,055,020.69	39° 59' 11.107 N	109° 31' 11.647 W
9,038.00	1.04	299.88	8,819.02	22.40	-1,347.91	14,524,541.23	2,055,019.21	39° 59' 11.113 N	109° 31' 11.665 W
9,132.00	0.75	325.09	8,913.01	23.32	-1,349.00	14,524,542.14	2,055,018.11	39° 59' 11.123 N	109° 31' 11.679 W
9,227.00	0.65	350.17	9,008.00	24.37	-1,349.45	14,524,543.18	2,055,017.64	39° 59' 11.133 N	109° 31' 11.685 W
9,322.00	0.70	328.72	9,102.99	25.39	-1,349.84	14,524,544.20	2,055,017.23	39° 59' 11.143 N	109° 31' 11.690 W
9,416.00	0.44	243.66	9,196.99	25.72	-1,350.46	14,524,544.52	2,055,016.60	39° 59' 11.146 N	109° 31' 11.698 W
9,511.00	0.27	27.12	9,291.99	25.76	-1,350.69	14,524,544.55	2,055,016.38	39° 59' 11.147 N	109° 31' 11.701 W
9,606.00	0.20	63.25	9,386.99	26.03	-1,350.44	14,524,544.83	2,055,016.62	39° 59' 11.149 N	109° 31' 11.698 W
9,701.00	0.30	98.27	9,481.99	26.07	-1,350.04	14,524,544.87	2,055,017.02	39° 59' 11.150 N	109° 31' 11.693 W
9,796.00	0.43	149.27	9,576.99	25.73	-1,349.62	14,524,544.54	2,055,017.45	39° 59' 11.146 N	109° 31' 11.687 W
9,852.00	0.51	124.73	9,632.98	25.41	-1,349.30	14,524,544.22	2,055,017.77	39° 59' 11.143 N	109° 31' 11.683 W
LAST SDI MWD PRODUCTION SURVEY									
9,910.00	0.51	124.73	9,690.98	25.11	-1,348.88	14,524,543.93	2,055,018.20	39° 59' 11.140 N	109° 31' 11.678 W
SDI PROJECTION TO TD									

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-35N4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	**MD Reference:**	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35N4BS	**North Reference:**	True
Wellbore:	NBU 921-35N4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-35N4BS	**Database:**	EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
163.00	163.00	0.67	0.23	FIRST SDI MWD SURFACE SURVEY
2,525.00	2,428.10	12.56	-597.15	LAST SDI MWD SURFACE SURVEY
2,582.00	2,481.96	11.95	-615.80	FIRST SDI MWD PRODUCTION SURVEY
9,852.00	9,632.98	25.41	-1,349.30	LAST SDI MWD PRODUCTION SURVEY
9,910.00	9,690.98	25.11	-1,348.88	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☑ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UTU63047A
8. WELL NAME and NUMBER: NBU 921-35N4BS
9. API NUMBER: 4304751395
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 35 9S 21E S
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: SWSE 388 FSL 1770 FEL S35, T9S, R21E
AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 461 FSL 2183 FWL S35, T9S, R21E
AT TOTAL DEPTH: SESW 413 FSL 2235 FWL S35, T9S, R21E

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:	ABANDONED	READY TO PRODUCE	17. ELEVATIONS (DF, RKB, RT, GL):
2/1/2011	3/23/2011	6/22/2011	☐	☑	5100 GL

18. TOTAL DEPTH:	19. PLUG BACK T.D.:	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET:
MD 9,910 TVD 9,691	MD 9,852 TVD 9,633		MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-CHI TRIPLE COMBO-RMTE-GRC-RCBL-BHP-HDIL/ZDL/CNGR

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,547		650		0	
7 7/8"	4 1/2" I-80	11.6#		9,896		1,874		130	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,079							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	5,869	5,884		
(B) MESAVERDE	7,978	9,658		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
5,869 5,884	0.36	24	Open ☑ Squeezed ☐
7,978 9,658	0.36	139	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7978 - 9658	PUMP 4,888 BBLS SLICK H2O & 89,556 LBS SAND
	DID NOT FRAC STAGE 7 (WASATCH)

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

RECEIVED
AUG 29 2011
DIV OF OIL, GAS & MINING

(5/2000) **(CONTINUED ON BACK)**

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
6/22/2011	6/24/2011	24		0	1,191	721	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	995	1,947					0	1,191	721	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,492				
BIRD'S NEST	1,787				
MAHOGANY	2,385				
WASATCH	4,915	7,641			
MESAVERDE	7,641	9,910	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history and final survey. Completion chrono details individual frac stages. Amended # 28 on Completion Report. Attached is a revised Completion Chrono.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 8/23/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011	
Project: UTAH-UINTAH	Site: NBU 921-35O PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011		End Date: 6/22/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/10/2011	7:00 - 15:00	8.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 12 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 87 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 30 MIN. LOST 44 PSI. BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFWE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/13/2011	8:30 - 18:00	9.50	COMP	36	B	P		PERF STG 1)PU PU & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH' P/U PERF AS PER STG 1 PERF DESIGN. POOH. FRAC STG 1)WHP 711 PSI, BRK 3600 PSI @ 4.6 BPM. ISIP 2827 PSI, FG .74. PUMP 100 BBLS @ 38.2 BPM @ 5924 PSI = 71% HOLES OPEN. ISIP 2947 PSI, FG .75, NPI 120 PSI. MP 6608 PSI, MR 44.2 BPM, AP 5965 PSI, AR 36.5 BPM, PMP 757 BBLS SW & 8486 LBS OF 30/50 SND & 2458 LBS OF 20/40 RESIN SND. TOTAL PROP 10,944 LBS X-OVER TO PERF CREW PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9320' P/U PERF AS PER PERF DESIGN. POOHX-OVER TO FRAC CREW FRAC STG 2)WHP 1520 PSI, BRK 4691 PSI @ 6.0 BPM. ISIP 2978 PSI, FG .76. PUMP 100 BBLS @ 36.6 BPM @ 5610 PSI = 66% HOLES OPEN. ISIP 2894 PSI, FG .75, NPI -84 PSI. MP 6566 PSI, MR 48.1 BPM, AP 5956 PSI, AR 45.7 BPM, PMP 710 BBLS SW & 9489 LBS OF 30/50 SND & 2571 LBS OF 20/40 RESIN SND. TOTAL PROP 12,060 LBS SWI X-OVER TO WIRE LINE PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9074' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 3)WHP 835 PSI, BRK 2607 PSI @ 6.0 BPM. ISIP 2110 PSI, FG .68. PUMP 100 BBLS @ 40.2 BPM @ 5296 PSI = 64% HOLES OPEN. ISIP 2590 PSI, FG .73, NPI 480 PSI. MP 6308 PSI, MR 51 BPM, AP 5570 PSI, AR 49.2 BPM, PMP 830 BBLS SW & 12,993 LBS OF 30/50 SND & 2117 LBS OF 20/40 RESIN SND. TOTAL PROP 15,110 LBS,SWI X-OVER TO WL PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8694' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC FRAC STG 4)WHP 625 PSI, BRK 3990 PSI @ 4.7 BPM. ISIP 2931 PSI, FG .78 PUMP 100 BBLS @ 27.3 BPM @ 5742 PSI = 60% HOLES OPEN. ISIP 2926 PSI, FG .78, NPI -5 PSI. MP 6502 PSI, MR 47.1 BPM, AP 5872 PSI, AR 38.5 BPM, PMP 647 BBLS SW & 8683 LBS OF 30/50 SND & 2403 LBS OF 20/40 RESIN SND. TOTAL PROP 11,086 LBS,SWI X-OVER TO PERF. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8694' P/U PERF AS PER STG 5 PERF DESIGN. POOH. SWIFN. .
6/14/2011	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES. WIRE LINE AWARENESS.
	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 5)WHP 1634 PSI, BRK 2634 PSI @ 4.6 BPM. ISIP 2052 PSI, FG .69. PUMP 100 BBLS @ 48.5 BPM @ 6014 PSI = 69% HOLES OPEN. ISIP 2818 PSI, FG .78, NPI 766 PSI. MP 6505 PSI, MR 50.8 BPM, AP 5505 PSI, AR 49.3 BPM, PMP 1331 BBLS SW & 26,316 LBS OF 30/50 SND & 2586 LBS OF 20/40 RESIN SND. TOTAL PROP 28,902 LBS.SWI X-OVER TO WL PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8160' P/U PERF AS PER DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 6)WHP 440 PSI, BRK 2727 PSI @ 5-0 BPM. ISIP 1944 PSI, FG .68. PUMP 100 BBLS @ 47.3 BPM @ 5808 PSI = 67% HOLES OPEN. ISIP 2330 PSI, FG .73, NPI 380 PSI. MP 6349 PSI, MR 50.5 BPM, AP 5802 PSI, AR 49.7 BPM, PMP 613 BBLS SW & 8905 LBS OF 30/50 SND & 2549 LBS OF 20/40 RESIN SND. TOTAL PROP 11,454 LBS.SWI X-OVER TO WL PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5934' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW FRAC STG 7)WHP 160 PSI, BRK 755 PSI @ 4.8 BPM. ISIP 387 PSI, FG .50. FG VERY LOW. CALL ZACH GARRITY. DID NOT FRAC STG 7 DUE T/ VERY LOW FG. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 5819'. POOH. SWI. DONE FRACING THIS WELL. TOTAL SAND = 89,556 LBS TOTAL CLFL = 4888 BBLS TOTAL SCALE = 576 GAL TOTAL BIO = 101 GAL
6/21/2011	11:00 - 13:00	2.00	COMP	30	A	P		RDSU. MOVE OVER. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG.
	13:00 - 17:00	4.00	COMP	31	I	P		MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. PU 150-JTS, EOT AT 4725'. SDFN.
6/22/2011	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
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Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	44	C	P		OPEN WELL 0 PSI. CONT PU 2 3/8 L-80 TBG. TAG SAND @ 5820' RU DRL EQUIP. TEST BOP'S T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. BRK CONV CIRC. BEG DRL OUT. 1ST CBP)TAG SAND @ 5820' = 15' SAND. DRL OUT CBP @ 5835' IN 7 MIN. 0 PSI INCR. CONT RIH. 2ND CBP)TAG SAND @ 5920' = 5' SAND. DRL OUT CBP @ 5925' IN 4 MIN, 0 PSI INCR. CONT RIH. 3RD CBP)TAG SAND @ 8120' =25' SAND. DRL OUT CBP @ 8145' IN 7 MIN. 700 PSI INCR. CONT RIH. 4TH CBP)TAG SAND @ 8345' = 35' SAND. DRL OUT CBP @ 8380' IN 5 MIN. 250 PSI INCR. CONT RIH. 5TH CBP)TAG SAND @ 8640' = 40' SAND. DRL OUT CBP @ 8680' IN 5 MIN. 200 PSI INCR. CONT RIH. 6TH CBP)TAG SAND @ 9044' = 30' SAND. DRL OUT CBP @ 9074' IN 2 MIN. 200 PSI INCR. CONT RIH. 7TH CBP)TAG SAND @ 9280' =30' SAND. DRL OUT CBP @ 9310' IN 4 MIN. 300 PSI INCR. CONT RIH. TAG SAND @ 9658'. C/O SAND T/ PBTD @ 9800'. CIRC WELL W/ 30 BBLS. RD DRL EQUIP. POOH, LD EXESS 2 3/8 L-80 TBG. PU 4 1/16 TBG HNGR & LAND TBG W/ KB = 19' 4 1/16 TBG HNGR = .83 286 JTS 2 3/8 L-80 TBG = 9056.84 (1.875) XN-NIPPLE = 1.86 EOT @ 9078.58' ND BOP, NUWH. DROP BALL. PUMP BIT OFF W/ 20 BBLS. SWI FOR 30 MIN T/ LET BIT FALL T/ PBTD. OPEN WELL T/ PIT. UNLOAD TBG. TURN WELL OVER T/ FBC. RD RIG. SLIDE OVER T/ NEXT WELL. (35N4CS, GREEN WELL.) RU RIG. PREP & TALLY NEW 2 3/8 L-80 TBG.
	13:45 - 13:45	0.00	PROD	50				WELL TURNED TO SALES @ 1345 HR ON 6/22/11 - 1000 MCFD, 1920 BWPD, CP 1850#, FTP 1550#, CK 20/64"
6/23/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1600#, 20/64" CK, 45 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 1956 BBLS LEFT TO RECOVER: 2998
6/24/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2150#, TP 1400#, 20/64" CK, 35 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 2872 BBLS LEFT TO RECOVER: 2082
	7:00 -			50				WELL IP'D ON 6/24/11 - 1191 MCFD, 0 BOPD, 721 BWPD, CP 1947#, FTP 995#, CK 20/64", LP 164#, 24 HRS
6/25/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 1250#, 20/64" CK, 26 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 3593 BBLS LEFT TO RECOVER: 1361
6/26/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2000#, TP 1150#, 20/64" CK, 18 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4113 BBLS LEFT TO RECOVER: 841

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 9/14/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: WORKOVER/WATER S

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS PERFORMED A WORKOVER OPERATION ON THE SUBJECT WELL. THE WORKOVER OPERATIONS CONSISTED OF A WATER SHUT OFF BY PERFORATION CEMENT SQUEEZE PERFS FROM 6707'-6870', WAS SQUEEZED OFF WITH CEMENT. PLEASE SEE THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/15/2011

RECEIVED Sep. 15, 2011

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 8/18/2011	End Date:
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/31/2011	13:00 -		WO/REP	30		P		1PM [DAY 1] MIRU, FTP=240#, FCP=250#. OPEN WELL PIT. CONTROL WELL W/ 35 BBLS TMAC WATER. NDWH, NUBOP, R/U FLOOR & TBG EQUIPMENT. EOT @ 9078'. POOH STDG BACK 2-3/8" L-80 TBG. [SLM] TBG LOOKED NEW. EOT @ 2730'. 5:30 PM SWI-SDFN
9/1/2011	7:00 - 17:00	10.00	WO/REP	30		P		7AM [DAY 2] JSA--POOH W/ TBG, W.L. WORK, RIH W/ TBG, CICR, PMPG CMT, PSI. SITP=1000#, SICP=1000#. BLEW WELL DN. CONTROL WELL W/ 40 BBLS TMAC WATER. EOT @ 2730'. CONTINUE POOH STDG BACK TBG. [SLM] TBG LOOKED NEW. L/D BHA. & BTM JT.--GAULED THREADS WHEN REMOVING XN NIPPLE. MIRU CHS. RIH W/ HALL 8K CBP & SET @ 8670'. KEPT STACKING OUT ON SOMETHING WHEN RIH? PUMPED 60 BBLS TMAC WHILE RIH TO SET CBP. POOH, RDMO CHS. 9:45 AM MIRU PROPETRO & WTFRD CMT MANIFOLD. P/U WTFRD CICR#1 FOR 4.5 X 11.6# CSG AND RIH ON 2-3/8" TBG. SET CICR @ 8397'. P.T. TBG TO 1000# FOR 5 MIN. GOOD TEST. STING INTO RETAINER. FILL TBG W/ 7 BBLS TMAC BEFORE CATCHING PSI @ 1.5 BPM @ 600#. PUMP 20 BBLS TMAC @ 1.5 BPM @ 1100#. ISIP=700#. PUMP 3 BBLS FRESH WATER @ 2.5 BPM @ 100#. MIX & PUMP 40 SKS [8.2 BBLS] CLASS G CMT, 1 15 YEILD, 1% CFL-117 @ 1.5 BPM @ 800#. DISPLACE TBG W/ 32.5 BBLS. STAGE SQZ INTO PERFS 5 TIMES, 1.5 TO 5 MINUTE INTERVALS LEAVING 1000# ON SQZ. 1/2 BBL LEFT IN TBG. STING OUT OF RETAINER. UPPER PERFS ON A VACUM. POOH STDG BACK TBG. PUMP 10 BBLS TMAC DOWN CSG. L/D BHA. 3:30 PM P/U CICR#2 FOR 4.5 X 11.6# CSG AND RIH ON TBG. EOT @ 5840'. TP @ 5869'. 5 PM SWI-SDFN. PREP TO SQZ IN AM.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 8/18/2011	End Date:
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2011	7:00 - 17:00	10.00	WO/REP	30		P		7AM [DAY 3] JSA--RIH W/ TBG, CICR, POOH W/ TBG, PSI, PINCH PTS. SITP=1000#, SICP=1000#. EOT @ 5840'. BLEW WELL DOWN. CONTROL TBG W/ 40 BBLS TMAC WATER. RIH ON 2-3/8" TBG. SET CICR @ 8206'. STING INTO RETAINER. FILL TBG W/ 20 BBLS TMAC TO CATCH PSI. PUMP 30 BBLS TOTAL @ 2 BPM @ 1200#. ISIP=700#. CONTROL CSG W/ 20 BBLS TMAC-[PERFS ABOVE CICR] PUMP 3 BBLS FRESH WATER @ 1.75 BPM @ 500#. MIX & PUMP 40 SKS CMT, (8.2 BBLS) 15.8#, 1.15 YEILD, 1% CFL-117 @ 1.5 BPM @ 800#. LOST PSI WHEN PUMPING CMT. ?? RETAINER FAILURE OF BROKE DOWN PERFS?? TBG VOLUME IS 31.7 BBLS. TRIED STEP SQZ LAST 3 BBLS. VACUM. PUMPED ANOTHER 11.6 BBLS TO CATCH PSI @ 2.3 BPM @ 300#. PUMPED TOTAL OF 15 BBLS OVER DISPLACEMENT @ 2.3 BPM @ 300#. STING OUT OF RETAINER PULLING 14K OVER. ATTEMPT TO STING BACK IN TO RETAINER. COULD NOT, LACKING 1FOOT. POOH STDG BACK TBG. FLUSH CSG W/ ANOTHER 40 BBLS WHILE POOH. FOUND STINGER CLEAN & O RINGS GOOD. LAST 6 STDS OF 2-3/8" TBG HAD CMT STRINGERS ON O.D. FILL CSG W/ 15 BBLS. PRESSURED UP TO 500# @ 2 BPM AND BLEEDS OFF WITH IN 1 MINUTE. THINKING RETAINER FAILED. CONSULT W/ ENGINEERING. DECISION WAS TO MOVE ON PER PROCEDURE FOR CICR#3 & P.T. CSG WHEN DRILLING OUT THE SQZ'S. 12 PM P/U CICR#3 FOR 4.5 X 11.6# CSG. RIH ON TBG. STARTED LOSING STRING WEIGHT @ 7978'. --(TOP PERF OF INTERVAL) --CMT STINGERS ON CSG WALL CAUSING STRING WEIGHT LOSS. PUH & SET CICR @ 7922'. P.T. TBG TO 1500#. 5 MINUTE TEST. PUMP 1/2 BBL AND CAUGHT 1500# PSI. PUMP 8.5 BBLS @ 1.7 BPM @ 1900#. ISIP=700#. START FRESH WATER SPACER & PRESSURED UP TO 2000# ?? STING OUT OF RETAINER AND PUMPED 3 BBLS @ 3 BPM @ 400#. STING BACK IN TO RETAINER & PRESSURE UP TO 2000# INSTANTLY. BUMP PSI UP TO 3000#. HELD FOR 5 MINUTES. BLEED OFF PSI. STING OUT. POOH STDG BACK TBG. L/D BHA. STINGER LOOKED GOOD. CONSULT W/ ENGINEERING. DECISION WAS TO GO AHEAD AND DO THE BALANCED PLUG PER PROCEDURE AND TEST CMT SQZ'S WHEN DRILLED OUT.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								5PM SWI-SDF-HOL-WE. PREP TO SET BALANCED PLUG ON TUESDAY, 9/6/11. LAST PLUG FOR THIS WELL.
9/6/2011	7:00 - 15:00	8.00	WO/REP	40	A	P		SICP=#, SITP=#, OPEN WELL, EOT @=5,898' TOP PERF @=5,869', MIRU PRO PETRO, EST CIRC, CLOSE CSG IN GET INJ RATE OF 1/2 BPM @=1,500#, PUMP 15 SX CEMENT [200' BALANCE PLUG], POOH W/ 13 JNTS 2-3/8 TBG, EOT @=5,460', SQUEEZE CEMENT TO TOP PERF, PRESSURED UP TO 1000#, BLED PRESSURE OFF POOH W/ TBG, PUMP'D 8 BBLS, PRESSURED CSG TO 500# LEFT OVER NIGHT. SWI
9/7/2011	7:00 - 17:00	10.00	WO/REP	44	A	P		HSM, MAKING CONN. P/U 3-7/8 SEALED BEARING BIT. RIH W/ 2-3/8 TBG, TAG CEMENT @=5,747', P/U PWR SWVL, BRK CIRC W/ RIG PUMP, DRL CEMENT FROM 5,747' TO 5,980' CIRC HOLE CLEAN, PRESSURE TEST SQUEEZE TO 500# FOR 10 MIN. 0# LOSS [GOOD TEST] HANG PWR SWVL BACK, CONT TO RIH TAG CEMENT @=7,923', P/U PWR SWVL EST CIRC, DRL CICR @=7,923' DRL THROUGH CICR IN 3 HRS 10 MIN. CONT TO RIH TO 8,147' HIT VERY LITTLE STREAMERS, CIRC HOLE CLEAN, PRESSURE TESTED TO 500# FOR 10 MIN W/ 0# PRESSURE LOSS, HANG PWR SWVL BACK, SWIFN.
9/8/2011	7:00 - 17:00	10.00	WO/REP	44	A	P		SICP=0#, SITP=0#, OPEN WELL, TIH TAG CICR @=8,206' P/U PWR SWVL, BREAK CIRC W/ RIG PUMP, DRL ON RETAINER FOR 1 HR DROPPED DOWN 30', DRL ON FOR 4 HRS NOT MAKING ANY HOLE, POOH TO LOOK @ BIT. P/U NEW SMITH ROCK BIT TIH TO 5,500' SWIFN.
9/9/2011	7:00 - 17:00	10.00	WO/REP	44	B	P		HSM, CHECK PRESSURES, 0# SITP, 0# SICP, CONT TO RIH W/ 2-3/8 TBG TAG @=8,246', P/U PWR SWVL, BRK CIRC W/ RIG PUMP DRL UP REMAINING CICR, DRL 80' CEMENT FALL THROUGH @=8,328', CIRC HOLE CLEAN W/ EOT @=8,370', P/T TO 500#, DID NOT TEST, PUMP INTO @=400#, @ =1/2 BPM, CONSULT W/ ENGINEER, POOH W/ TBG & BIT, P/U CICR RIH TO 5,835' LEAVE HANGING ABOVE PERFS FOR WEEKEND. PREP TO CEMENT MON.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 8/18/2011	End Date:
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/12/2011	7:00 - 15:00	8.00	WO/REP	30		P		7AM [DAY 8] JSA--RIH W/ TBG, CICR, PMPG CMT, PSI, POOH W/ TBG. WE-SITP=0#, SICP=0#. EOT @ 5835'. CONTINUE RIH W/ CICR. SET CICR @ 8298'. MIRU PROPETRO. P.T. SURFACE LINES TO 2500#. ESTABLISH INJ RATE @ 2.0 BPM @ 50#. PRESSURED UP TO 1000# AND BROKE DOWN PERFS W/ 10 BBLS GONE. PUMP 25 BBLS TMAC @ 2.2 BPM @ 850#. FILL CSG W/ 5 BBLS & HOLD 200# ON CSG. PUMP 1.5 BBLS F.W. @ 1400#. 4.5. CSG & 2-3/8" TBG BEGAN COMMUNICATING. END -- PUMP 7 BBLS CMT TO PIT. CONSULT W/ ENGINEERING. STING OUT OF CICR. REVERSE CIRCULATE W/ 40 BBLS @ 2.5. BPM @ 800#. ESTABLISH INJECTION RATE ABOVE CICR @ 1.5 BPM @ 1500# @ 2 BBLS GONE. STING BACK IN CICR. PMP 3 BBLS F.W. @ 1.2 BPM @ 300#. MIX & PUMP (10.2 BBLS) 50 SKS CLASS G CMT, 15.8#, 1.15 YEILD. DISPLACE W/ 20 BBLS & SHUT CSG IN. PUMP 5 BBLS @ .8 BPM @ 1700#. STG TO 2000# W/ ANOTHER .25 BBLS & LOCKED UP. -- 6.8 BBLS LEFT IN TBG. STING OUT, PULL 10 STDS TBG. REVERSE CIRCULATE W/ 45 BBLS @ 3 BPM @ 1250#. GOT 2 BBLS CMT BACK IN RETURNS? @ 31 BBLS REVERSING. PUMP .2 BBL @ .5 BPM @ 500# FOR P.T. BUMP UP TO 1000# @ .5 BPM. 0# LOSS IN 5 MIN. GOT .25 BBL BACK WHEN BLEEDING OFF PSI. RDMO PROPETRO. POOH STDG BACK TBG. L/D BHA. 3 PM SWI-SDFD
9/13/2011	7:00 -		WO/REP	30		P		7AM [DAY 9] JSA-- RIH W/ TBG, DRLG CMT, PSI, DRLG CICR, POOH W/ TBG. SICP=0#. P/U GOOD USED SMITH BIT, XO SUB & RIH OUT OF DERRICK ON 2-3/8" TBG. TAG CMT TOP @ 7958' R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. DRILL & C/O 340' MEDIUM CMT TO CICR @ 8298'. AVERAGE 15 MIN JT. CIRCULATE WELL CLEAN. P.T. CSG TO 600#. LOST 0# IN 10 MIN. 12:30 PM DRILL OUT WTFRD CICR IN 4 HRS 40 MIN. PUH W/ EOT @ 8230'. CIRC CLN. 5:30 PM SWI-SDFN

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 8/18/2011	End Date:
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/14/2011	7:00 - 17:00	10.00	WO/REP	30		P		7AM [DAY 10] JSA--DRLG CMT, PSI, PINCH PTS, POOH W/ TBG, RIH W/ TBG, CICR. SICP=0#. EOT @ 8230'. ESTABLISH CIRCULATION W/ RIG PUMP. DRILL & C/O 46' MEDIUM CMT. FELL THROUGH AT BTM PERF @ 8346'. RIH, TAG CICR @ 8397'. CIRCULATE WELL CLEAN. P.T. CSG TO 550#. LOST 0# IN 10 MINUTES. R/D SWVL. 8 AM POOH STDG BACK TBG . L/D WORE OUT SMITH CONE BIT. P/U NEW 2-3/8" FLOW TECH SEALED BRG BIT, X-O SUB & RIH ON 2-3/8" TBG. 11:45AM - TAG CICR @ 8397'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION W/ RIG PUMP. 12 PM- DRILL OUT WTFRD CICR 1.5 HRS !! CONTINUE DRILLING & C/O CMT. AVG 30 MIN JT. W/ EOT @ 8528' --P.T. TOP SET OF PLUGGED BACK PERFS TO 500#. LOSS 0# IN 10 MINUTES. DRILL & C/O CMT TO 8572'. FELL THROUGH. RIH TO 8656'. CIRCULATE WELL CLEAN. P.T. CSG TO 500#. 0# LOSS IN 10 MINUTES. BTM SET OF PERFS FROM 8642'-8644' -- CBP @ 8670'. R/D SWVL, PUH W/ EOT @ 8625'. 5PM SW-SDFN.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/24/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests authorization to plug and abandon the subject well location. Attached is the plug and abandonment procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: January 28, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst

SIGNATURE	DATE
N/A	1/24/2013

RECEIVED: Jan. 24, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513950000

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338. 2. Amend Plug #1: A minimum of 8 sx shall be spotted on the CIBP @ 7930'.

3. All balanced plugs shall be tagged to ensure that they are at the depth specified.

4. All annuli shall be cemented from a minimum depth of 100' to the surface.

5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.

6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.

7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.

8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

RECEIVED: Jan. 28, 2013

1/28/2013

Wellbore Diagram

r263

API Well No: 43-047-51395-00-00 **Permit No:** **Well Name/No:** NBU 921-35N4BS

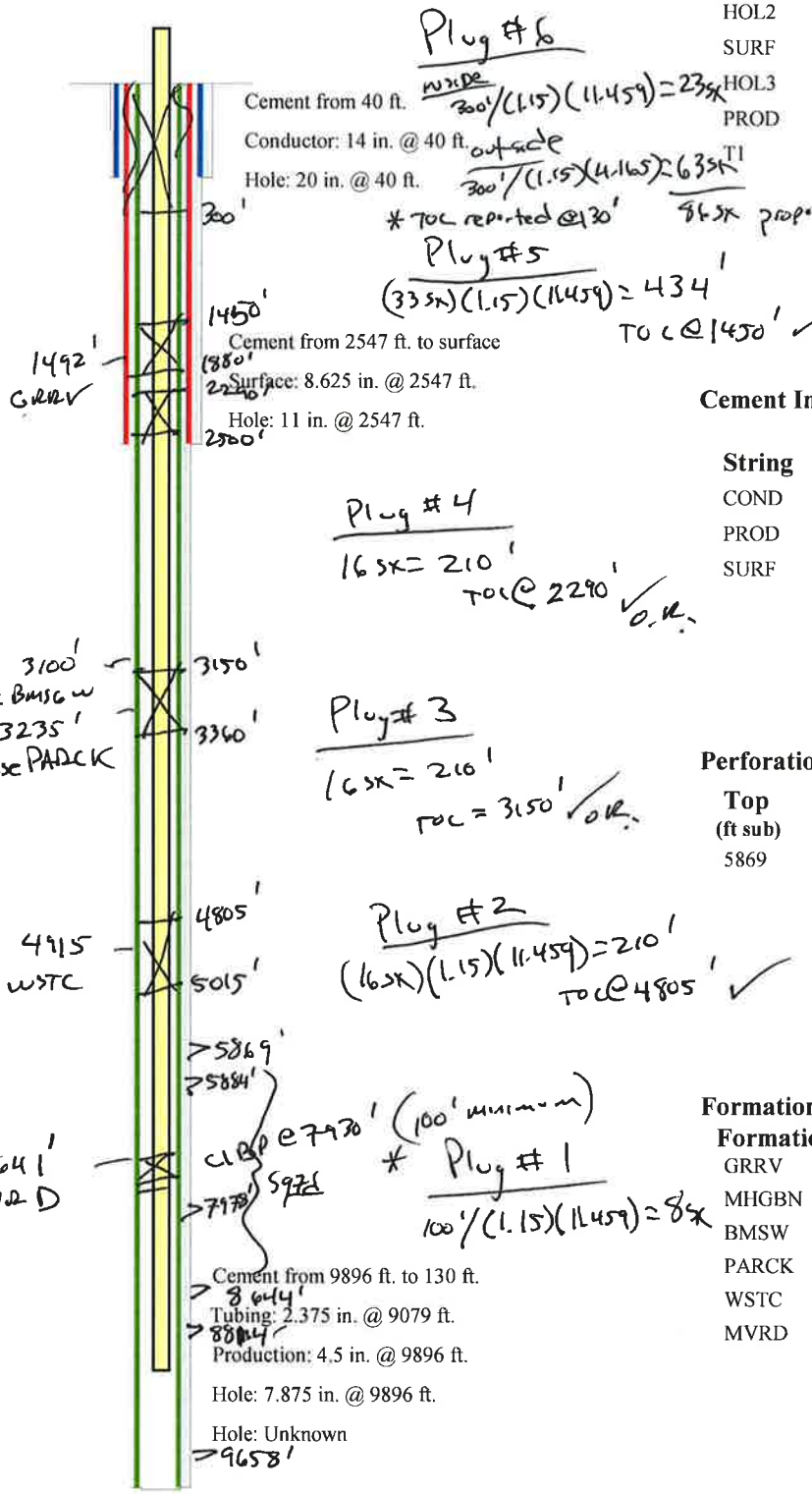
Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 35 T: 9S R: 21E Spot: SWSE

Coordinates: X: 626722 Y: 4427284

Field Name: NATURAL BUTTES

County Name: UINTAH



TD: 9910 **TVD:** 9691 **PBTD:** 9852

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (bbl/ft)
HOL1	40	20			
COND	40	14	36.7	40	
HOL2	2547	11			
SURF	2547	8.625	28	2547	
HOL3	9896	7.875			
PROD	9896	4.5	11.6	9896	11.459
TI	9079	2.375			4.165

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	40		UK	28
PROD	9896	130	UK	1874
SURF	2547	0	UK	650

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
5869	9658			

Formation Information

Formation	Depth
GRRV	1492
MHGBN	2385
BMSW	3100
PARCK	3235
WSTC	4915
MVRD	7641

Name: **NBU 921-35N4BS**
Location: **NW SE SE SW Sec 35 T9S R21E**
LAT: 39.986324 **LONG:** -109.515783 **COORDINATE:** NAD83 *(Surface Location)*
Uintah County, UT
Date: **1/24/13**

ELEVATIONS: 5100' GL 5119' KB *Frac Registry TVD: 9691'*

TOTAL DEPTH: 9910' **PBTD:** 9851'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2547'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ Surface-9852' and 9895-9896'

4 1/2", 11.6#, P-110 BT&C @ 9852-9895'
Marker Joint **4922-4942' and 7593-7613'**

PERFORATIONS:

FORMATION	STATUS	TOP	BOTTOM
WASATCH	CEMENT SQUEEZE	5,869	5,872
WASATCH	CEMENT SQUEEZE	5,880	5,884
MESAVERDE	CEMENT SQUEEZE	7,978	7,980
MESAVERDE	CEMENT SQUEEZE	8,026	8,028
MESAVERDE	CEMENT SQUEEZE	8,108	8,110
MESAVERDE	CEMENT SQUEEZE	8,263	8,265
MESAVERDE	CEMENT SQUEEZE	8,280	8,282
MESAVERDE	CEMENT SQUEEZE	8,344	8,346
MESAVERDE	CEMENT SQUEEZE	8,444	8,446
MESAVERDE	CEMENT SQUEEZE	8,569	8,571
MESAVERDE	CEMENT SQUEEZE	8,642	8,644
MESAVERDE	PERFORATED	8,814	8,815
MESAVERDE	PERFORATED	8,840	8,841
MESAVERDE	PERFORATED	8,944	8,946
MESAVERDE	PERFORATED	8,973	8,975
MESAVERDE	PERFORATED	9,042	9,044
MESAVERDE	PERFORATED	9,112	9,113
MESAVERDE	PERFORATED	9,137	9,138
MESAVERDE	PERFORATED	9,180	9,182
MESAVERDE	PERFORATED	9,216	9,218
MESAVERDE	PERFORATED	9,278	9,280
MESAVERDE	PERFORATED	9,378	9,379
MESAVERDE	PERFORATED	9,480	9,482
MESAVERDE	PERFORATED	9,655	9,658

RECEIVED: Jan. 24, 2013

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.90	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 ½" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1492' Green River Top
1787' Bird's Nest Top
2385' Mahogany Top
4915' Wasatch Top
7641' Mesaverde Top

BOTTOMS:

3235' Parachute Bottom (MD)
7641' Wasatch Bottom
9910' Mesaverde Bottom (TD)

T.O.C. @ 130' (Halliburton CBL - 4/21/2011)

RECEIVED: Jan. 24, 2013

NBU 921-35N4BS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDE. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY BLM 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

PROCEDURE

Note: An estimated 173sx of "class G" cement needed for procedure

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOP.

2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

3. **PLUG #1, ISOLATE MESAVERDE PERFORATIONS (7979'-9658'):** RIH W/ 4 ½" CIBP. SET @ ~7930'. PLACE A MINIMUM OF 35' OF CMT ON TOP OF CIBP WITH WIRELINE DUMP BAILER SO TOP OF CEMENT WILL BE NO DEEPER THAN 7895'.

4. **PLUG #2, PROTECT TOP OF WASATCH (4915'):** RIG DOWN WIRELINE. TIH WITH TUBING TO ~5015'. BRK CIRC W/ FRESH WATER. DISPLACE **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~4805' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.

5. **PLUG #3, PROTECT BASE OF PARACHUTE (3258'):** PUH TO ~3360'. BRK CIRC W/ FRESH WATER. DISPLACE **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~3150' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.

6. **PLUG #4, PROTECT TOP OF MAHOGANY (~2385'):** PUH TO ~2500'. BRK CIRC W/ FRESH WATER. DISPLACE **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~2290' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.

7. **PLUG #5, PROTECT TOP OF BIRDS NEST (1787') and GREEN RIVER (1492'):** PUH TO ~1880'. BRK CIRC W/ FRESH WATER. DISPLACE **33 SX / 6.7 BBL / 37.4 CUFT** AND BALANCE PLUG W/ TOC @ ~1450' (430' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.

8. **PLUG #6, SURFACE HOLE:** POOH. RIH W/ WIRELINE, PERFORATE @ 300' W/ 4 SPF. POOH W/ WIRELINE. RU CEMENT SERVICE TO PROD CSG. PUMP **92 SX / 18.7 BBL / 105.1 CUFT** OR SUFFICIENT VOLUME TO FILL ANNULUS AND CASING TO SURFACE.

9. CUT OFF WELLHEAD AND INSTALL MARKER PER BLM GUIDELINES.

10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RECEIVED: Jan. 24, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-35N4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047513950000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0388 FSL 1770 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 2/4/2013	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☑ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator has concluded the plug and abandonment operations on the subject well location on 02/04/2013. This well was plugged in order to expand and drill the NBU 921-35O Pad. Please see the attached chronological well history for details and updated latitude and longitude locations. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 28, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 3/27/2013

RECEIVED: Mar. 27, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: ABANDONMENT	Start Date: 1/23/2013	End Date: 2/4/2013
Active Datum: RKB @5,119.00usft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/23/2013	7:00 - 7:15	0.25	MAINT	48	G	P		HSM, JSA
	7:15 - 9:15	2.00	MAINT	30	G	P		ROAD DIG FROM NBU 1022-7H4 TO NBU 921-35N4BS
	9:15 - 15:30	6.25	MAINT	30	A	P		MIRU, 1000# SICP, FLOW WELL TO FLOWBACK TNK, PUMP 30 BBLS T-MAC, COULD NOT KILL WELL, FLOW TO FLOWBACK TNK FOR 2HRS, 300# FCP TRY TO KILL WELL AGIN, STILL COULD NOT KILL WELL, WILL FLOW WELL OVER NIGHT & KILL WELL W/ BRINE IN THE A.M.
1/24/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM,JSA
	7:15 - 8:15	1.00	MAINT	30	E	P		30# FCP, CONTROL WELL W/ 75 BBLS BRINE, ND WH, NU BOP'S, CONTINUE PUMPING BRINE DN CSG TOTAL OF 130BBLS
	8:15 - 9:30	1.25	MAINT	31	I	P		UNLAND TBG ONLY HAD 5000# OF WEIGHT, TOOH & LD 47-1/2 JTS ON TRAILER (1,504'), SHUT DN WAIT FOR FISHING TOOLS
	9:30 - 12:30	3.00	MAINT	30	E	P		PUMP ANOTHER 130BBLS BRINE & 80BBLS DRILLING MUD TO CONTROL WELL
	12:30 - 13:30	1.00	MAINT	31	B	P		P/U 3-7/8" OVER SHOT & ONE JT WASH PIPE, 3-7/8" OVERSHOT WON'T FIT THROUGH WEATHERFORD WELLHEAD, WILL HAVE A SMALLER ONE MADE BY MORNING
	13:30 - 15:30	2.00	MAINT	31	I	P		P/U 2-3/8" P-110 TBG, TIH & TAG FISH TOP @ 2,219', TOOH W/ 35 STANDS, SWI, SDFN
1/25/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 9:15	2.00	MAINT	31	B	P		24# SICP, BLOW WELL DN, TIH W/ OVERSHOT, X OVER BUSHING, 1 JT WASH PIPE, LATCH FISH @ 2,235 (ON COLLAR BELOW FISH TOP)', PULL UP ON FISH, TBG PULLED FREE @ 28,000# PULL, TOOH & FOUND X OVER BUSHING PARTED
	9:15 - 10:00	0.75	MAINT	46	F	P		WAIT FOR WIRELINE TO COME OUT & CUT TBG, ALSO WAIT FOR NEW OVERSHOT TO COME FROM VERNAL
	10:00 - 10:30	0.50	MAINT	31	B	P		TIH W/ OVERSHOT ON 2-3/8" TBG, LATCH FISH @ 2,219'
	10:30 - 12:30	2.00	MAINT	34	A	P		MIRU CUTTERS WIRELINE, RIH W/ CHEMICAL CUTTER, CUT TBG @ 5,610', POOH W/ WIRELINE, WIRELINE GOT STUCK @ 3,520', PULL OUT OF ROPE SOCKET & POOH
	12:30 - 14:30	2.00	MAINT	31	I	P		TOOH W/ 2-3/8" TBG, STAND BACK 70 JTS P-110 IN DERRICK, LD 107 JTS JUNK ON TRAILER
	14:30 - 17:00	2.50	MAINT	31	I	P		P/U OVERSHOT, TIH W/ 149 JTS 2-3/8" TBG, SWI, SDFWE.
1/28/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 8:00	0.75	MAINT	31	B	P		180# SICP, BLOW WELL DN, TIH LATCH FISH @ 5,603', PULL UP TO 80,000# & TBG CAME FREE
	8:00 - 8:30	0.50	MAINT	31	I	P		TOOH W/ 2-3/8" TBG, TBG IS PULLING WET
	8:30 - 13:00	4.50	MAINT	42	B	P		MADE 1 SWAB RUN TO 2000', TBG STARTED FLOWING, LET TBG FLOW TO FLOWBACK TNK

RECEIVED: Mar. 27, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011	Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: ABANDONMENT	Start Date: 1/23/2013	End Date: 2/4/2013
Active Datum: RKB @5,119.00usft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 13:30	0.50	MAINT	30	E	P		PUMP 25BBLS T-MAC (TBG VOLUME) & COULD NOT KILL WELL, ORDER 130BBLS BRINE
	13:30 - 14:30	1.00	MAINT	46	F	P		WAIT FOR LOAD OF BRINE
	14:30 - 15:45	1.25	MAINT	30	E	P		PUMP 20BBLS BRINE DN TBG, PUMP 95BBLS DN CSG
	15:45 - 17:00	1.25	MAINT	31	I	P		TOOH W/ 17 STANDS 2-3/8" TBG, WELL CAME ON AGAIN, SDFN
1/29/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 14:00	6.75	MAINT	30	E	P		520# SICP, BLEW WELL DN TO 200# THEN GOT WTR, PUMP 80 BBLS DRILLING MUD TO CONTROL WELL, TBG STILL FLOWING, FLOW TO FLOWBACK TNK, TBG STILL WONT DIE, CALL FLOWBACK CREW & FLOW WELL OVER NIGHT.
1/30/2013	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 10:00	2.75	MAINT	31	I	P		0# FCP, TBG STILL FLOWING WTR, CONTROL TBG /W 30 BBLS BRINE, TOOH W/ 2-3/8" TBG TO OVERSHOT, KILL CSG W/ 100 BBLS BRINE, LD OVERSHOT, TOOH W/ REMAINING TBG
	10:00 - 12:00	2.00	MAINT	34	I	P		MIRU CUTTERS WIRELINE, RIH W/ GAUGE RING TO 7,950, POOH, P/U 4-1/2" CIBP, RIH SET CIBP @ 7,930', POOH RD CUTTERS WIRELINE
	12:00 - 15:00	3.00	MAINT	31	I	P		TIH W/ 2-3/8" TBG, TAG CIBP @ 7,950', SDFN
1/31/2013	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA GPS LAT 39.9862247 LONG 109.515820
	7:15 - 8:00	0.75	ABANDP	51	D	P		MIRU PRO PETRO, PUMP 20 BBLS FRESH WTR, MIX & PUMP 1 BBL CEMENT ON CIBP, PULL UP 9 JTS REVERSE OUT
	8:00 - 10:00	2.00	ABANDP	31	I	P		TOOH, LD 91 JTS 2-3/8" TBG ON TRAILER, PRESSURE TEST CSG AS REQUESTED BY BLM, CSG DID NOT HOLD PRESSURE
	10:00 - 12:00	2.00	ABANDP	51	D	P		PUMP 5 BBLS FRESH WTR, MIX & PUMP 16 SX CLASS G @ 15.8 PPG, DISPLACE W/ 15 BBL FRESH WTR, TOOH W/ 5 STANDS TBG, REVERSE OUT TBG, LEAVING BALANCE PLUG FROM 5,015'-4,805', SHUT DN & WAIT FOR CEMENT TO CURE
2/1/2013	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA GPS LAT 39.9862247 LONG 109.515820
	7:15 - 9:15	2.00	ABANDP	31	I	P		TIH W/ TBG TO TAG BALANCE PLUG, PLUG WAS NOT THERE, TOOH W/ 2-3/8" TBG
	9:15 - 10:15	1.00	ABANDP	34	I	P		MIRU CUTTERS WIRELINE, RIH W/ 4-1/2" CIBP, SET CIBP @ 5,015', POOH
	10:15 - 11:15	1.00	ABANDP	31	I	P		TIH W/ 2-3/8" TBG, TAG CIBP @ 5,015'
	11:15 - 12:00	0.75	ABANDP	51	D	P		PUMP 5 BBLS FRESH WTR, MIX & PUMP 16 SX CLASS G @ 15.8 PPG, DISPLACE W/ 14 BBL FRESH WTR, TOOH W/ 8 JTS, REVERSE OUT
	12:00 - 12:30	0.50	ABANDP	31	I	P		TOOH W/ 2-3/8" TBG TO 3,360'
	12:30 - 13:30	1.00	ABANDP	51	D	P		PUMP 5 BBLS FRESH WTR, MIX & PUMP 16 SX CLASS G @ 15.8 PPG, DISPLACE W/ 10 BBL FRESH WTR, TOOH W/ 20 JTS 2-3/8" TBG, REVERSE OUT LEAVING BALANCE PLUG FROM 3,360'-3,140', SWI, SDFWE
2/4/2013	7:00 - 7:15	0.25	ABANDP	48		P		HSM, JSA GPS LAT 39.9862247 LONG 109.515820
	7:15 - 8:00	0.75	ABANDP	31	I	P		TIH W/ 2-3/8" TBG TO TAG CEMENT PLUG, PLUG WAS NOT THERE, TOOH W/ TBG

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35N4BS (YELLOW)	Spud Conductor: 2/1/2011		Spud Date: 2/18/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD		Rig Name No: MILES 3/3
Event: ABANDONMENT	Start Date: 1/23/2013		End Date: 2/4/2013
Active Datum: RKB @5,119.00usft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/388.00/E/0/1,770.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 10:00	2.00	ABANDP	34	I	P		MIRU CUTTERS WIRELINE, RIH SET 4-1/2" CIBP @3,360', POOH W/ WIRELINE
	10:00 - 10:30	0.50	ABANDP	31	I	P		TIH W/ 2-3/8" TBG, TAG CIBP @ 3,360'
	10:30 - 11:30	1.00	ABANDP	51	D	P		PRESSURE TEST CSG, CSG DID NOT HOLD PRESSURE, PUMP 5 BBLS FRESH WTR, MIX & PUMP 16 SX CLASS G @ 15.8 PPG, DISPLACE W/ 12 BBLS FRESH WTR
	11:30 - 12:15	0.75	ABANDP	31	I	P		TOOH W/ 2-3/8" TBG
	12:15 - 12:30	0.25	ABANDP	34	I	P		RIH SET 4-1/2" CIBP @ 2,500', POOH W/ WIRELINE
	12:30 - 12:45	0.25	ABANDP	31	I	P		TIH W/ TBG, TAG CIBP 2,500'
	12:45 - 13:00	0.25	ABANDP	51	D	P		PRESSURE TEST CSG, CSG HELD PRESSURE, PUMP 5 BBLS FRESH WTR, MIX & PUMP 16 SX CLASS G @ 15.8 PPG, DISPLACE W/ 9 BBLS FRESH WTR
	13:00 - 13:15	0.25	ABANDP	31	I	P		TOOH LD 20 JTS2-3/8" TBG
	13:15 - 13:30	0.25	ABANDP	51	D	P		BALANCE PLUG FROM 1,880'-1,450', PUMP 5 BBLS FRESH WTR, MIX & PUMP 33 SX CLASS G @ 15.8 PPG, DISPLACE W/ 5.6 BBLS FRESH WTR
	13:30 - 14:00	0.50	ABANDP	31	I	P		TOOH LD 59 JTS TBG ON TRAILER
	14:00 - 14:15	0.25	ABANDP	34		P		RIH W/ 1' PERF GUN (4 SHOTS PER FOOT), PERF CSG @ 300', POOH, RD WIRELINE
	14:15 - 15:00	0.75	ABANDP	30	C	P		ND BOP'S, NU WH
	15:00 - 15:15	0.25	ABANDP	51	D	P		PRESSURE UP ON CSG W/ CEMENT PUMP & COULDEN'T PUMP INTO SURFACE CSG
	15:15 - 15:30	0.25	ABANDP	34		S		RIH W/ 1' PERF GUN (4 SHOTS PER FOOT), PERF CSG @ 100', POOH, RD WIRELINE
	15:30 - 15:45	0.25	ABANDP	51	D	P		PUMP 5 BBLS FRESH WTR, MIX & PUMP 80 SX CLASS G @ 15.8 PPG, CEMENT TO SURFACE
	15:45 - 17:00	1.25	ABANDP	30	C	P		RDMO 39.98623 -109.5158

FORM 6

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751395	NBU 921-35N4BS		SWSE	35	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	2/1/2011			2/15/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 02/01/2011 AT 12:40 HRS. BHL=SESW

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751385	NBU 921-35O1CS		SWSE	35	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	2/1/2011			2/15/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 02/01/2011 AT 14:45 HRS. BHL= SWSE

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751387	NBU 921-35O1BS		SWSE	35	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	2/1/2011			2/15/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 02/01/2011 AT 16:00 HRS. BHL= SWSE

ACTION CODES:
- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

ANDY LYTLE
Name (Please Print)
Signature
REGULATORY ANALYST
Title
2/2/2011
Date

RECEIVED
FEB 02 2011
DIV. OF OIL, GAS & MINING

(5/2000)